

## SEQUENCE LISTING A

<110> CANON KABUSHIKI KAISHA

<120> Probe set and method for identifying HLA allele

<130> g10003828A

<150> JP2003-430553

<151> 2003-12-25

<160> 637

<170> PatentIn version 3.2

<210> 1

<211> 897

<212> DNA

<213> Homo sapiens

<400> 1

```

atggccgtca tggcgccccg aaccctcctc ctgtactct cgggggcctt ggcctgacc    60
cagacctggg cgggctccca ctccatgagg tatttctca catcgtgtc ccggcccggc    120
cgcggggagc ccgcttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc    180
gacagcgacg ccgcagcca gaagatggag ccgcggggc cgtggataga gcaggagggg    240
ccggagtatt gggaccagga gacacggaat atgaaggccc actcacagac tgaccgagcg    300
aacctgggga ccctgcgagg ctactacaac cagagcgagg acggttctca caccatccag    360
ataatgtatg gctgcgacgt ggggcccggc gggcgcttc tccggggta ccggcaggac    420
gcctacgacg gcaaggatta catgccctg aacgaggacc tgcgtcttg gaccgggcg    480
gacatggcag ctcagatcac caagcgcaag tgggaggcgg tccatgcggc ggagcagcgg    540
agagtctacc tggagggcgg gtgcgtggac gggctccga gatactgga gaacgggaag    600
gagacgtctc agcgacgga ccccccaag acacatatga cccaccacc catctctgac    660
catgaggcca ccctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc    720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca    780
gggatggaa cttccagaa gtggcggtg gtggtggtc cttctggaga ggagcagaga    840
tacactgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggggag    897

```

<210> 2

<211> 546

<212> DNA

<213> Homo sapiens

<400> 2

```

gctccactc catgaggtat ttcttcacat ccgtgtccc gcccggccgc ggggagcccc    60
gcttcacgc cgtggggtac gtggacgaca cgagttcgt gcggttcgac agcgacgccg    120
cgagccagaa gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg    180
accaggagac acggaatatg aaggccact cacagactga ccgagcgaac ctggggaccc    240
tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct    300
gcgacgtggg gccggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca    360
aggattacat gccttgaac gaggacctg gctcttgac cgcggcgac atggcagctc    420
agattaccaa gcgaagtgg gaggcggtc atgcggcgga gcagcggaga gtctacctg    480
agggccggtg cgtggacggg ctccgagat acctggagaa cgggaaggag acgtgcagc    540
gcacgg

```

<210> 3

<211> 897

<212> DNA

<213> Homo sapiens

<400> 3

```

atggccgtca tggcgccccg aaccctctc ctgctactct cgggggccct ggcctgacc 60
cagacctggg cgggctccca ctccatgagg tatttctcca catccgtgtc cggcccggc 120
agtggagagc ccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaagatggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccagga gacacggaat atgaaggccc actcacagac tgaccgagcg 300
aacctgggga cctgcgcggt ctactacaac cagagcgagg acggttctca caccatccag 360
ataatgtatg gctgcgagct ggggcccggc gggcgcttcc tccgcggtta ccggcaggac 420
gcctacgacg gcaaggatta catgccctg aacgaggacc tgcgtcttg gaccgcgcg 480
gacatggcag ctcatcac caagcgcaag tgggaggcgg tccatgcggc ggagcagcgg 540
agagtctacc tggagggccg gtgcgtggac gggctccgca gatactgga gaacgggaag 600
gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac 660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cactctgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
ggggatgga cctccagaa gtggcggtg gtgtgtgtg cttctggaga ggagcagaga 840
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

```

<210> 4  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 4
gctccactc catgaggtat ttcttccat ccgtgtccg gcccgccgc ggggagcccc 60
gcttcatgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120
cgagccagaa gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accaggagac acggaatatg aaggccact cacagactga ccgagcgaac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagatg atgtatggct 300
gcgacgtggg gccggacggg cgcttctcc gcggttaccg gcaggacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctcttgac cgcgccggac atggcagctc 420
agatcaccaa gcgcaagtgg gaggcgtcc atgcggcgga gcagcgaga gtctacctgg 480
agggccggtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

```

<210> 5  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 5
gctccactc catgaggtat ttcttccat ccgtgtccg gcccgccgc ggggagcccc 60
gcttcatgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120
cgagccagaa gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accaggagac acggaatatg aaggccact cacagactga ccgagcgaac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300
gcgacgtggg gccggacggg cgcttctcc gcggttaccg gcaggacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctcttgac cgcgccggac atggcagctc 420
agatcaccaa gcgcaagtgg gaggcgtcc atgcggcgga gcagtgaga gcctacctgg 480
agggccggtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

```

<210> 6  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 6
gctccactc catgaggtat ttcttccat ccgtgtccg gcccgccgc ggggagcccc 60

```

gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
 cgagccagaa gatggagccg cgggcccgt ggatagagca ggagaggcct gattattggg 180  
 accaggagac acggaatgtg aaggccact cacagactga ccgagagaac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gccggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcttgac cgcgccggac atggcagctc 420  
 agatcaccaa gcgcaagtgg gaggcgtcc atgcggcgga gcagcggaga gtctacctgg 480  
 agggccggtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 7  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 7  
 gctccactc catgaggtat ttctcacat cgtgtcccgc gccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
 cgagccagaa gatggagccg cgggcccgt ggatagagca ggagggccg gattattggg 180  
 accaggagac acggaatgtg aaggccact cacagactga ccgagcgaac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gccggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcttgac cgcgccggac atggcagctc 420  
 agatcaccaa gcgcaagtgg gaggcgtcc atgcggcgga gcagcggaga gtctacctgg 480  
 agggctggtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 8  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 8  
 atggccgtca tggcgccccg aacctctc ctgctactct cggggccct gccctgacc 60  
 cagacctggg cgggctcca ctccatgagg tatttctca catccgtgc cggcccgc 120  
 cgcggggagc cccgttcat cgcgtggg tacgtggacg acacgcagtt agtgcggtc 180  
 gacagcgacg ccgagagcca gaagatggag ccgcgggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccagga gacacggaat atgaaggccc actcacagac tgaccgagc 300  
 aacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360  
 ataatgtatg gctgcgacgt ggggcccggac gggcgcttc tccgcggtta ccggcaggac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctcatcac caagcgcaag tgggaggcgg tccatcggc ggagcagcgg 540  
 agagtctacc tggagggccg gtgcgtggac gggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgacgga ccccccaag ~~acacatacga ccaaccaccc~~ catctctgac 660  
 catgaggcca cctgaggtg ctgggcccgt ggcttctacc ctgcggagat cacttgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa cctccagaa gtggcggtg gtgtgtgtg ~~cttctggaga~~ ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg ccaagcccc tcacctgag atgggag 897

<210> 9  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 9  
 atggccgtca tggcgccccg aacctcgtc ctgctactct cgggggctct gccctgacc 60  
 cagacctggg cgggctctca ctccatgagg tatttctca catccgtgc cggcccgc 120

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggt 240  
 ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagtg 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360  
 aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcggtta ccaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcgcg 480  
 gacatggcag ctacagaccac caagcacaag tgggaggcgg cccatgtggc ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcggcaaaa acgcatatga ctaccacgc tgtctctgac 660  
 catgaagcca cctgagggtg ctgggccctg agcttctacc ctgcggagat cactctgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa cctccagaa gtggcggtg gtggtgtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897

<210> 10  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 10gtctccactc catgaggtat ttcttcatat ccgtgtccc gcccggccgc ggggagcccc 60  
 gttcatcgc agtgggctac tgggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
 cgagccagag gatggagccg cgggcgcctg gatatagaca ggagggtccg gattattggg 180  
 acggggagag acggaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
 gcgacgtggg tgcggactgg cgcttctcc cgggtacca ccagtacgc tacgacgga 360  
 aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagtc 420  
 agaccaccaa gcacaagtgg gagcgggccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacgg 546

<210> 11  
 <211> 875  
 <212> DNA  
 <213> Homo sapiens

<400> 11  
 aacctcgtc ctgtactct cgggggctct ggccctgacc cagacctggg cgggctctca 60  
 ctccatgagg tattttctca catccgtgtc ccggcccgcc cgcggggagc cccgcttcat 120  
 cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc gacagcgacg ccgcgagcca 180  
 gaggatggag ccgcggggcg cgtggataga gcaggagggt ccggagtatt gggacgggga 240  
 gacacggaaa gtgaaggccc actcacagac tcacgagtg gacctgggga cctgcgcgg 300  
 ctactacaac cagagcgagg ccggttctca caccgtccag aggatgtatg gctgcgacgt 360  
 ggggtcggac tggcgcttcc tccgcggtta ccaccagtac gcctacgacg gcaaggatta 420  
 catcgccctg aaagaggacc tgcgtcttg gaccgcgcg gacatggcag ctacagaccac 480  
 caagcacaag tgggaggcgg cccatgtggc ggagcagttg agagcctacc tggagggcac 540  
 gtgcgtggag tggctccgca gatacctgga gaacgggaag gagacgtgc agcgacgga 600  
 cgcggcaaaa acgcatatga ctaccacgc tgtctctgac catgaagcca cctgagggtg 660  
 ctgggccctg agcttctacc ctgcggagat cactctgacc tggcagcggg atggggagga 720  
 ccagaccag gacacggagc tcgtggagac caggcctgca ggggatggaa cctccagaa 780  
 gtggcggtg gtggtgtgc cttctggaca ggagcagaga tacacctgcc atgtgcagca 840  
 tgagggttg cccaagcccc tcacctgag atggg 875

<210> 12  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens



&lt;400&gt; 12

gctctcactc catgaggtat ttcttcacat cegtgtcccg gcccgccgc ggggagcccc	60
gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg	120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg	180
acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc	240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct	300
gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc tacgacggca	360
aggattacat cgccctgaaa gaggacctgc gctcttggac cgcgcgggac atggcagctc	420
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg	480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc	540
gcacgg	546

&lt;210&gt; 13

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 13

gctctcactc catgaggtat ttcttcacat cegtgtcccg gcccgccgc ggggagcccc	60
gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg	120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg	180
acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc	240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct	300
gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc tacgacggca	360
aggattacat cgccctgaaa gaagacctgc gctcttggac cgcgcgggac atggcagctc	420
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg	480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc	540
gcacggacgc ccccaaacg catatgactc accacgtgt ctctgacct gaagccaccc	600
tgaggtgtcg ggccctgagc ttctacctg cggagatcac actgacctg cagcgggatg	660
gggaggacca gaccaggac acggagctcg tggagaccag gcctgcagg gatggaacct	720
tccagaagtg ggcggctgtg gtggtgcctt ctggacagga gcagagatac acctgccatg	780
tgcagcatga gggtttgc cagccctca cctgagatg gg	822

&lt;210&gt; 14

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 14

gctctcactc catgaggtat ttcttcacat cegtgtcccg gcccgccgc ggggagcccc	60
gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg	120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg	180
acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc	240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct	300
gcgacgtggg gtcggactgg cgattcctcc gcgggtacca ccagtacgcc tacgacggca	360
aggattacat cgccctgaaa gaggacctgc gctcttggac cgcgcgggac atggcagctc	420
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg	480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc	540
gcacggacgc ccccaaacg catatgactc accacgtgt ctctgacct gaagccaccc	600
tgaggtgtcg ggccctgagc ttctacctg cggagatcac actgacctg cagcgggatg	660
gggaggacca gaccaggac acggagctcg tggagaccag gcctgcagg gatggaacct	720
tccagaagtg ggcggctgtg gtggtgcctt ctggacagga gcagagatac acctgccatg	780
tgcagcatga gggtttgc cagccctca cctgagatg gg	822

&lt;210&gt; 15

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 15

```

gctctcactc catgaggtat ttcttcacat cctgttccc gcccggccgt ggggagcccc 60
gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
acggggagac acggaaagtg aaggcccact cacagactca ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgccggac atggcagctc 420
agaccaccaa gcacaagtgg gaggcgcccc atgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcage 540
gcacggacgc ccccaaaacg catatgactc accacgtgt ctctgacct gaagccacc 600
tgaggtgctg ggccctgagc ttctacctg cggagatcac actgacctg cagcgggatg 660
gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg gatggaacct 720
tccagaagtg ggcggctgtg gtggtgcctt ctggacagga gcagagatac acctgccatg 780
tgcagcatga gggtttgcgc aagcccctca cctgagatg gg 822

```

&lt;210&gt; 16

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 16

```

gctctcactc catgaggtat ttcttcacat cctgttccc gcccggccgc ggggagcccc 60
gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
acggggagac acggaaagtg aaggcccact cacagactca ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgccggac atggcagctc 420
agaccaccaa gcacaagtgg gaggcgcccc atgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcage 540
gcacggacgc ccccaaaacg catatgactc accacgtgt ctctgacct gaagccacc 600
tgaggtgctg ggccctgagc ttctacctg cggagatcac actgacctg cagcgggatg 660
gggaggacca gaccaggac acagagctcg tggagaccag gcctgcaggg gatggaacct 720
tccagaagtg ggcggctgtg gtggtgcctt ctggacagga gcagagatac acctgccatg 780
tgcagcatga gggtttgcgc aagcccctca cctgagatg gg 822

```

&lt;210&gt; 17

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 17

```

gctctcactc catgaggtat ttcttcacat cctgttccc gcccggccgc ggggagcccc 60
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
acggggagac acggaaagtg aaggcccact cacagactca ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgccggac atggcagctc 420
agaccaccaa gcacaagtgg gaggcgcccc atgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcage 540
gcacggacgc ccccaaaacg catatgactc accacgtgt ctctgacct gaagccacc 600
tgaggtgctg ggccctgagc ttctacctg cggagatcac actgacctg cagcgggatg 660
gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg gatggaacct 720
tccagaagtg ggcggctgtg gtggtgcctt ctggacagga gcagagatac acctgccatg 780

```

tgcagcatga gggtttggcc aagccctca ccctgagatg gg 822  
 <210> 18  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 18  
 gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgagttcgt gcggttcgac agcgacgccg 120  
 cgagccggag gatggagccg cggcgccgt ggatagagca ggagggtccg gagtattggg 180  
 acggggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgcgcta ctacaaccag agcgaggccg gttctcacac cctccagagg atgtatggct 300  
 gcgacgtggg gtcggactgg cgcttcctgc gcgggtacca ccagtacgc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420  
 agaccacaa gcacaagtgg gaggcgccc atgtggcgga gcagtggaga gcctacctg 480  
 agggcacgtg cgtggagtgg ctcccgagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacggacgc ccccaaacg catatgactc accacgtgt ctctgacct gaagccacc 600  
 tgaggtgctg ggcctgagc ttctacctg cggagatcac actgacctg cagcgggatg 660  
 gggaggacca gaccaggac acggagctcg tggagaccag gcctgcagg gatggaacct 720  
 tccagaagtg ggcggctgtg gtgtgcctt ctggacagga gcagagatac acctgccatg 780  
 tgcagcatga gggtttggcc aagccctca ccctgagatg gg 822

<210> 19  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 19  
 atggccgtca tggcgcccc aacctcgtc ctgctactct cgggggctct ggccctgacc 60  
 cagacctggg cgggctctca ctccatgagg tatttcttca catccgtgtc ccggcccgcc 120  
 cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggt 240  
 ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagtg 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360  
 aggatgtatg gctgcgacgt ggggtcggac tggcgcttc tccgcgggta ccaccagtac 420  
 gcctacgacg gcaaggatta catgcctg aaagaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctacagaccac caagcacaag tgggagacgg ccatgaggc ggagcagtg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cccccaaa acgcatatga ctaccacgc tgtctctgac 660  
 catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtggcggtgt gtggtgtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897

<210> 20  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 20atggccgtca tggcgcccc aacctcgtc ctgctactct cgggggctct ggccctgacc 60  
 cagacctggg cgggctctca ctccatgagg tatttcttca catccgtgtc ccggcccgcc 120  
 cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggt 240  
 ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagtg 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360  
 atgatgtatg gctgcgacgt ggggtcggac tggcgcttc tccgcgggta ccaccagtac 420  
 gcctacgacg gcaaggatta catgcctg aaagaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctacagaccac caagcacaag tgggagcgcg ccatgtggc ggagcagttg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcacccaaa acgcatatga ctcaccacgc tgtctctgac 660  
 catgaagcca cctgaggtg ctgggccctg agcttctacc ctgaggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa cttccagaa gtgggcggct gtgtgtgtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag atggggag 897

<210> 21  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 21  
 atggccgtca tggcgccccg aacctcgtc ctgctactct cgggggctct ggccctgacc 60  
 cagacctggg cgggctctca ctccatgagg ttttctaca cctccgtgc cggccccgc 120  
 cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagccg gaggatggag ccgcggggcg cgtggataga gcaggagggt 240  
 ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagt 300  
 gacctgggga cctgcgcggt ctactacaac cagagcgagg ccggttctca caccctccag 360  
 aggatgtatg gtcgagcgt ggggtcggac tggcgttcc tgcgcgggta ccaccgtac 420  
 gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc ggagcagtg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcacccaaa acgcatatga ctcaccacgc tgtctctgac 660  
 catgaagcca cctgaggtg ctgggccctg agcttctacc ctgaggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa cttccagaa gtgggcggct gtgtgtgtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag atggggag 897

<210> 22  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 22  
 atggccgtca tggcgccccg aacctcgtc ctgctactct cgggggctct ggccctgacc 60  
 cagacctggg cgggctctca ctccatgagg ttttctaca cctccgtgc cggccccgc 120  
 cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggt 240  
 ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagt 300  
 gacctgggga cctgcgcggt ctactacaac cagagcgagg ccggttctca caccgtccag 360  
 aggatgtatg gtcgagcgt ggggtcggac tggcgttcc tccgcgggta ccaccgtac 420  
 gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc ggagcagtg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcacccaaa acgcatatga ctcaccacgc tgtctctgac 660  
 catgaagcca cctgaggtg ctgggccctg agcttctacc ctgaggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa cttccagaa gtgggcggct gtgtgtgtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag atggggag 897

<210> 23  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 23

```

atggccgtca tggcgccccg aaccctcgtc ctgtactct cgggggctct ggccctgacc 60
cagacctggg cgggctctca ctccatgagg tatttcttca catccgtgtc ccggcccggc 120
cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240
ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagtg 300
gacctgggga ccctgcgagg ctactacaac cagagcgagg ccggttctca caccgtccag 360
aggatgtgtg gctgcgacgt ggggtcggac tggcgcttc tccgaggta ccaccgtac 420
gctacgacg gcaaggatta catgccctg aaagaggacc tgcgtcttg gaccgaggcg 480
gacatggcag ctacagaccac caagcacaag tgggaggcgg ccatgtggc ggagcagttg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcacgga cccccaaa acgcatatga ctcaccacg tgtctctgac 660
catgaagcca ccctgagggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
gggatggaa ccttcagaa gtggcggtg gtggtgtgc cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggttg cccaagccc tcacctgag atgggag 897

```

<210> 24  
 <211> 550  
 <212> DNA  
 <213> Homo sapiens

```

<400> 24
tggcggggct ctactccat gaggatttc tacacctcg tgcggggc cggccgagg 60
gagccccgt tcatgcagt gggctacgt gacgacagc agttcgtcg gttcgacagc 120
gacgcccga gccggaggat ggagccgagg cgcgctgga tagagcagga ggtccggag 180
tattgggacg gggagacagc gaatgtgaag gccactcac agactaccg agtggacctg 240
gggacctgc gcggctacta caaccagagc gaggccggtt ctcaccct ccagaggatg 300
tatggctcg acgtggggc ggactggcg ttcctgcg ggtaccacca gtacgcctac 360
gacggcaagg attacatgc cctgaaagag gacctgcgt cttggaccg ggcggacatg 420
gcagctcaga ccaccaagca caagtgggag gcggcccatg tggcgagca gtggagagcc 480
tacctggagg gcactgcgt ggagtggctc cgcagatacc tggagaacgg gaaggagacg 540
ctgcagcgca 550

```

<210> 25  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

```

<400> 25
atggccgtca tggcgccccg aaccctcgtc ctgtactct cgggggctct ggccctgacc 60
cagacctggg cgggctctca ctccatgagg tatttcttca catccgtgtc ccggcccggc 120
cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240
ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagtg 300
gacctgggga ccctgcgagg ctactacaac cagagcgagg ccggttctca caccgtccag 360
aggatgtatg gctgcgacgt ggggtcggac tggcgcttc tccgaggta ccaccgtac 420
gctacgacg gcaaggatta catgccctg aaagaggacc tgcgtcttg gaccgaggcg 480
gacatggcag ctacagaccac caagcacaag tgggaggcgg ccatgtggc ggagcagttg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcacgga cccccaaa acgcatatga ctcaccacg tgtctctgac 660
catgaagcca ccctgagggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgaa 780
gggatggaa ccttcagaa gtggcggtg gtggtgtgc cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggttg cccaagccc tcacctgag atgggag 897

```

<210> 26  
 <211> 897  
 <212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 26

```

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggctct ggccctgacc    60
cagacctggg cgggctctca ctccatgagg tatttctaca cctccgtgtc ccggcccggc    120
cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc    180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggt    240
ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagtg    300
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag    360
aggatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccaccagtac    420
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg    480
gacatggcag ctacagaccac caagcacaag tgggaggcgg ccatgtggc ggagcagttg    540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag    600
gagacgtgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc tgtctctgac    660
catgaagcca cctgagggtg ctgggccctg agcttctacc ctgcggagat cactctgacc    720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca    780
ggggatggaa cttccagaa gtggcggtt gtggtgtgtc cttctggaca ggagcagaga    840
tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag atggggag    897

```

&lt;210&gt; 27

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 27

```

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggctct ggccctgacc    60
cagacctggg cgggctctca ctccatgagg tatttctca catccgtgtc ccggcccggc    120
cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc    180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggt    240
ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagat tgaccgagtg    300
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag    360
aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta ccaccagtac    420
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg    480
gacatggcag ctacagaccac caagcacaag tgggaggcgg ccatgtggc ggagcagttg    540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag    600
gagacgtgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc tgtctctgac    660
catgaagcca cctgagggtg ctgggccctg agcttctacc ctgcggagat cactctgacc    720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca    780
ggggatggaa cttccagaa gtggcggtt gtggtgtgtc cttctggaca ggagcagaga    840
tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag atggggag    897

```

&lt;210&gt; 28

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 28

```

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggctct ggccctgacc    60
cagacctggg cgggctctca ctccatgagg tatttctca catccgtgtc ccggcccggc    120
cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc    180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggt    240
ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagtg    300
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag    360
aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta ccaccagtac    420
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg    480
gacatggcag ctacagaccac caagcacaag tgggaggcgg ccatgtggc ggagcagcag    540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag    600
gagacgtgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc tgtctctgac    660

```

catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa cttccagaa gtgggcggct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897

<210> 29  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 29  
 atggccgtca tggcgcccc aaccctcgtc ctgctactct cgggggctct ggccctgacc 60  
 cagacctggg cgggctctca ctccatgagg tatttcttca catccgtgc cggcccggc 120  
 cgcggggagc cccgcttcat cgagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggt 240  
 ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagt 300  
 gacctgggga ccctgcggc ctactacaac cagagcgagg ccggttctca caccgtccag 360  
 aggatgtatg gctgcagct ggggtcggac tggcgttcc tccgcgggta ccaccagtac 420  
 gcctacgacg gcaaggatta catgccctg aaagaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctacagacc caagcacaag tgggaggcgg cccatgaggc ggagcagcag 540  
 agagcctacc tggagggcac gtgcgtggag tggctcgcga gatactgga gaacgggaag 600  
 gagacgtgc agcgacgga cgccccaaa acgcatatga ctaccacgc tgtctctgac 660  
 catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa cttccagaa gtgggcggct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897

<210> 30  
 <211> 892  
 <212> DNA  
 <213> Homo sapiens

<400> 30cgtcatggcg cccgaaccc tcgtctgct actctcggg gctctggccc tgaccagac 60  
 ctgggcgggc tctactcca tgaggtattt ctacacctcc gtgtccggc cggccgagg 120  
 ggagccccgc tcatcgagc tgggtacgt ggacgacacg cagttcgtgc ggttcgacag 180  
 cgacgccgag agccggagga tggagccgcg ggcgcgctgg atagagcagg agggtcgga 240  
 gtattgggac ggggagacac ggaaagtga ggcccactca cagactacc gaggggacct 300  
 ggggacctcg cgcggctact acaaccagag caggccggt tctcacacc tccagaggat 360  
 gtatggctgc gacgtgggt cggactggcg cttctgcgc ggggtaccac agtacgccta 420  
 cgacggcaag gattacatcg ccctgaaaga ggacctgcgc tcttgaccg cggcggacat 480  
 ggcagctcag accaccaagc acaagtggga ggcggcccat gtggcggagc agttgagagc 540  
 ctacctggag ggcacgtgcg tggagtggct ccgcagatac ctggagaacg ggaaggagac 600  
 gctgcagcgc acggacgcc ccaaaacgca tatgactcac cagctgtct ctgacctga 660  
 agccacctg aggtgctggg ccctgagctt ctacctgcg gagatcacac tgacctggca 720  
 gcgggatggg gaggaccaga ccaggacac ggagctcgtg gagaccaggc ctgcagggga 780  
 tggaaccttc cagaagtggg cggctgtgtt ggtgccttct ggacaggagc agagatacac 840  
 ctgccatgtg cagcatgagg gttgcccac gccctcacc ctgagatggg ag 892

<210> 31  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 31  
 atggccgtca tggcgcccc aaccctcgtc ctgctactct cgggggctct ggccctgacc 60  
 cagacctggg cgggctctca ctccatgagg tatttcttca catccgtgc cggcccggc 120  
 cgcggggagc cccgcttcat cgagtgggc tacgtggacg acacgcagtt cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggccc cgtggataga gcaggagggt 240  
 ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagtg 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360  
 aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta ccaccgtac 420  
 gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg gaccgcggcg 480  
 gacatggcag ctacagaccac caagcacaag tgggaggcgg cccatgtggc ggagcagttg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcacgga cgcggcaaaa acgcatatga ctaccacgc tgtctctgac 660  
 catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcggct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggttg cccaagcccc tcaccctgag atggggag 897

&lt;210&gt; 32

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 32

atggccgtca tggctccccg aacctcgtc ctgctactct cgggggctct ggccctgacc 60  
 cagacctggg cgggctctca ctccatgagg tattttctca catccgtgtc ccggcccggc 120  
 cgccggggagc ccgcttcat cgagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggccc cgtggataga gcaggagggt 240  
 ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagtg 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccctccag 360  
 atgatgtttg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta ccaccgtac 420  
 gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg gaccgcggcg 480  
 gacatggcag ctacagaccac caagcacaag tgggaggcgg cccatgtggc ggagcagttg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcacgga cgcggcaaaa acgcatatga ctaccacgc tgtctctgac 660  
 catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcggct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggttg cccaagcccc tcaccctgag atggggag 897

&lt;210&gt; 33

&lt;211&gt; 781

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 33

atggccgtca tggcggcccg aacctcgtc ctgctactct cgggggctct ggccctgacc 60  
 cagacctggg cgggctctca ctccatgagg tattttctca catccgtgtc ccggcccggc 120  
 cgccggggagc ccgcttcat cgagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggccc cgtggataga gcaggagggt 240  
 ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagtg 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccctccag 360  
 atgatgtttg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta ccaccgtac 420  
 gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg gaccgcggcg 480  
 gacatggcag ctacagaccac caagcacaag tgggaggcgg cccatgtggc ggagcagttg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcacgga cgcggcaaaa acgcatatga ctaccacgc tgtctctgac 660  
 catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 g 781

&lt;210&gt; 34



<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 34  
atggccgtca tggcgccccg aacctcgtc ctgtactct cgggggtctt gccctgacc 60  
cagacctggg cgggctctca ctccatgagg tattttctca catccgtgtc ccggcccggc 120  
cgcgggggagc cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggt 240  
ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagt 300  
gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360  
aggatgtgtg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta ccaccagtac 420  
gcctacgacg gcaaggatta catgccctg aaagaggacc tgcgtcttg gaccgcggcg 480  
gacaaggcag ctacgaccac caagcacaag tgggaggcgg cccatgtggc ggagcagttg 540  
agagcctacc tggaggggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
gagacgtgc agcgacagga cgcgccaaa acgcatatga ctaccacgc tgtcttgac 660  
catgaagcca ccctgagggt ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
ggggatggaa cttccagaa gtggcggtt gtggtggtgc cttctggaca ggagcagaga 840  
tacacctgcc atgtgcagca tgagggttg cccaagccc tcacctgag atggggag 897

<210> 35  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 35  
gctctcactc catgaggtat ttcttcacat cgtgtcccg gcccggcgc ggggagcccc 60  
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180  
acggggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggacc 240  
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgc tacgacggca 360  
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcggcggac atggcggctc 420  
agatcacaa gcgcaagtgg gaggcgccc atgtggcgga gcagcagaga gcctacctgg 480  
agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcacgg 546

<210> 36  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 36  
gctctcactc catgaggtat ttcttcacat cgtgtcccg gcccggcgc ggggagcccc 60  
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180  
acggggagac acggaatgtg aaggccact cacagactca ccgagtggac ctggggacc 240  
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgc tacgacggca 360  
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420  
agaccacaa gcacaagtgg gaggcgccc atgtggcgga gcagttgaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcacgg 546

<210> 37  
<211> 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 37

```

gctctcactc catgaggtat ttcttcacat cegtgtcccg gcccgccgc ggggagcccc 60
gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcccgt ggatagagca ggagggtccg gagtattggg 180
acggggagac acggaacgtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gtcttcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgc tacgacggca 360
aggattacat gccttgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

```

&lt;210&gt; 38

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 38

```

atggccgtca tggcgccccg aacctcgtc ctgtactct cgggggctct ggccctgacc 60
cagacctggg cgggtctca ctcatgagg tattttaca cctcgtgtc ccggcccgc 120
cgcggggagc cccgttcat cgcagtgggc tacgtggaca acacgcagtt cgtgcggttc 180
gacagcgacg ccgcagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggt 240
ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagt 300
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360
aggatgtatg gctgcgacgt ggggtcggac tggcgttcc tccgcgggta ccaccgtac 420
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480
gacatggcag ctacagaccac caagcacaag tgggaggcgg ccatgtggc ggagcagttg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600
gagacgtgc agcgacgga ccccccaaa acgcatatga ctaccacgc tgtctctgac 660
catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
gggatggaa ccttcagaa gtggcgcggt gtggtggtgc cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggttg ccaagcccc tcacctgag atgggag 897

```

&lt;210&gt; 39

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 39

```

atggccgtca tggcgccccg aacctcgtc ctgtactct cgggggctct ggccctgacc 60
cagacctggg cgggtctca ctcatgagg tattttca catcgtgtc ccggcccgc 120
cgcggggagc cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggt 240
ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagt 300
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360
aggatgtatg gctgcgacgt ggggtcggac tggcgttcc tccgcgggta ccaccgtac 420
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480
gacatggcag ctacagaccac caagcacaag tgggaggcgg ccatgtggc ggagcagttg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600
gagacgtgc agcgacgga ccccccaaa acgcatatga ctaccacgc tgtctctgac 660
catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
gggatggaa ccttcagaa gtggcgcggt gtggtggtgc cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggttg ccaagcccc tcacctgag atgggag 897

```

<210> 40  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 40gtctcactc catgaggtat ttcttcacat cctgttccc gcccggccgc ggggagcccc 60  
 gttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180  
 acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
 gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcttgac cgcggcggac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacgg 546

<210> 41  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 41  
 gctctcactc catgaggtat ttcttcacat cctgttccc gcccggccgc ggggagcccc 60  
 gttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180  
 acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
 gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420  
 agaccaccaa gcacaagtgg gagacggccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacgg 546

<210> 42  
 <211> 891  
 <212> DNA  
 <213> Homo sapiens

<400> 42  
 gtcattggcgc cccgaacct cgtctgcta ctctggggg ctctggccct gaccagacc 60  
 tgggcgggct ctactccat gaggtatttc ttacatccg tgtcccggc cggccgagg 120  
 gacccccgt tcactgcagt gggtacgtg ~~gacgacgc agttcgtg~~ gttcgacagc 180  
 gacgccgga gccagaggat ggagccggg gcgccgtgga tagagcagga ggtccggag 240  
 tattgggacg gggagacacg gaaagtgaag gccactcac agactaccg agtggacctg 300  
 gggacctgc gcgctacta caaccagagc gaggcgggtt-ctcacacct ccagaggatg 360  
 tatggctgcg acgtggggc ggactggcg ttctcccg ggtaccacca gtacgctac 420  
 gacggcaagg attacatgc cctgaaagag gacctgcgt cttggaccgc ggcggacatg 480  
 gcagctcaga ccaccaagca caagtgggag gcggccatg aggcggagca gttgagagc 540  
 tacttgagg gcacgtcgt ggagtggct cgcagatacc tggagaacg gaaggagacg 600  
 ctgcagcga cggacgcccc caaaacgcat atgactacc acgtgtctc tgacctgaa 660  
 gccacctga ggtgctggg cctgagctc tacctgcgg agatcacact gacctggcag 720  
 cgggatggg aggaccagac ccaggacacg gagctcgtg agaccaggcc tgcaggggat 780  
 ggaaccttc agaagtggg gcctgtgtg gtgcctctg gacaggagca gagataacc 840  
 tgccatgtg agcatgaggg ttgccaag ccctcacc tgagatggga g 891

<210> 43  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 43  
gctctcactc catgaggtat ttcttcacat ccgtgtccc gcccggccgc ggggagcccc 60  
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180  
acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
aggattacat cgcctgaaa gaggacctgc gctcttggac cgcggcggac atggcagctc 420  
agaccaccaa gcacaagtgg gaggcggccc atgcgcgga gcagcagaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcacgg 546

<210> 44  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 44  
gctctcactc catgaggtat ttctacact ccgtgtccc gcccggccgc ggggagcccc 60  
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagagtccg gattattggg 180  
acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
aggattacat cgcctgaaa gaggacctgc gctcttggac cgcggcggac atggcagctc 420  
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcacgg 546

<210> 45  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 45  
gctctcactc catgaggtat ttcttcacat ccgtgtccc gcccggccgc ggggagcccc 60  
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180  
acggggagac acggcaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
aggattacat cgcctgaaa gaggacctgc gctcttggac cgcggcggac atggcagctc 420  
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcacgg 546

<210> 46  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 46

atggccgtca tggcgccccg aacctctgtc ctgtactct cgggggctct ggcctgacc 60  
 cagacctggg cgggctctca gtccatgagg tatttttca catccgtgtc ccggcccggc 120  
 cgcggggagc cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggt 240  
 ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagtg 300  
 gacctgggga ccctgcgagg ctactacaac cagagcgagg ccggttctca caccgtccag 360  
 aggatgtatg gctgcgacgt ggggtcggac tggcgcttc tccgcgggta ccaccagtac 420  
 gcctacgacg gcaaggatta catgccctg aaagaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctacagaccac caagcacaag tgggaggcgg cccatgtggc ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccga gatacctgga gaacgggaag 600  
 gagacgtcgc agcgacgga cgcgccaaa acgcatatga ctaccacgc tgtctctgac 660  
 catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtggcggtg gtggtgtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897

&lt;210&gt; 47

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 47

gctctcactc catgaggtat ttctcacat ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 ggagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180  
 acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgcggtca ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
 gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtagcc tacgacggca 360  
 aggattacat gccttgaag gaggacctgc gctcttgac cgcggcgac atggcagctc 420  
 agaccacaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacgg 546

&lt;210&gt; 48

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 48

atggccgtca tggcgccccg aacctctgtc ctgtactct cgggggctct ggcctgacc 60  
 cagacctggg cgggctctca ctccatgagg tatttttca catccgtgtc ccggcccggc 120  
 cgcggggagc cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggt 240  
 ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagtg 300  
 gacctgggga ccctgcgagg ctactacaac cagagcgagg ccggttctca caccgtccag 360  
 aggatgtctg gctgcgacgt ggggtcggac tggcgcttc tccgcgggta ccaccagtac 420  
 gcctacgacg gcaaggatta catgccctg aaagaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctacagaccac caagcacaag tgggaggcgg cccatgtggc ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccga gatacctgga gaacgggaag 600  
 gagacgtcgc agcgacgga cgcgccaaa acgcatatga ctaccacgc tgtctctgac 660  
 catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtggcggtg gtggtgtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897

&lt;210&gt; 49

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 49

gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccgccgc ggggagcccc 60  
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccagag gatggagccg cggcgccgt ggatagagca ggagggtcg gagtattggg 180  
acggggagac acggaaagt aagcccaagt cacagactca ccgagtggac ctggggaccc 240  
tgccgggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc tacgacggca 360  
aggattacat cgccctgaaa gaggacctgc gctcttgagc cgcggcggac atggcagctc 420  
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcacggacgc ccccaaacg catatgactc accacgtgt ctctgacct gaagccacc 600  
tgaggtgctg ggccctgagc ttctaccctg cggagatcac actgacctgg cagcgggatg 660  
gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg gatggaacct 720  
tccagaagtg ggcggctgtg gtggtgcctt ctggacagga gcagagatac acctgccatg 780  
tcgacatga gggttgccc aagccctca cctgagatg gg 822

&lt;210&gt; 50

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 50gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccgccgc ggggagcccc 60  
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccagag gatggagccg cggcgccgt ggatagagca ggagggtcg gagtattggg 180  
acggggagac acggaaagt aagcccaagt cacagactga ccgagtggac ctggggaccc 240  
tgccgggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc tacgacggca 360  
aggattacat cgccctgaaa gaggacctgc gctcttgagc cgcggcggac atggcagctc 420  
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcacgg 546

&lt;210&gt; 51

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 51

gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccgccgc ggggagcccc 60  
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccagag gatggagccg cggcgccgt ggatagagca ggagggtcg gagtattggg 180  
acggggagac acggaaagt aagcccaact cacagactca ccgagtggac ctggggaccc 240  
tgccgggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc tacgacggca 360  
aggattacat cgccctgaaa gaggacctgc gctcttgagc cgcggcggac atggcagctc 420  
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480  
agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcacgg 546

&lt;210&gt; 52

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 52

```

gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcacgc agtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cggcgccgt gcatagagca ggagggtccg gattattggg 180
acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgcgggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttggac cgcggcggac atggcagctc 420
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 53

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 53

```

gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcacgc agtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cggcgccgt gcatagagca ggagggtccg gattattggg 180
acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgcgggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttggac cgcggcggac atggcagctc 420
agaccaccaa gcacaagtgg gagacggccc atgaggcgga gcagcagaga gcctacctgg 480
agggcgggtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 54

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 54

```

gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcacgc agtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cggcgccgt gcatagagca ggagggtccg gattattggg 180
acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgcgggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtttggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttggac cgcggcggac atggcggctc 420
agatcaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 55

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 55

```

gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcacgc agtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cggcgccgt gcatagagca ggagggtccg gattattggg 180
acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgcgggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300

```

gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgccggac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 56  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 56  
 gctctcactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180  
 acggggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
 gcgacgtggg gtcggactgg cgcttctcc gcgggtacca gcagtacgcc tacgacggca 360  
 aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgccggac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 57  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 57  
 gctctcactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180  
 acggggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
 gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgccggac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 58  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 58  
 gctctcactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180  
 acggggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
 gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgccggac atggcagctc 420  
 agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546



<210> 59  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 59  
gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccgccgc ggggagcccc 60  
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180  
accaggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
gcgacgtggg gtcggactgg cgttctctcc gcgggtacca ccagtacgcc tacgacggca 360  
aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420  
agaccacaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcacgg 546

<210> 60  
<211> 619  
<212> DNA  
<213> Homo sapiens

<400> 60atggccgtca tggcgccccg aacctcgtc ctgctactct cgggggctct ggccctgacc 60  
cagacctggg cgggctctca ctccatgagg tatttcttca catcgtgtc ccggcccgc 120  
cgcggggagc cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggt 240  
ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac tcaccgagtg 300  
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360  
aggatgtatg gtcgcgacgt ggggtcggac tggcgcttcc tcccgggta ccaccagtac 420  
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480  
gacatggcag ctgagaccac caagcacaag tgggagggcg cccatgtggc ggagcagttg 540  
agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
gagacgtgc agcgacgg 619

<210> 61  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 61  
gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccgccgc ggggagcccc 60  
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccggag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180  
acggggagac acggaagtg aaggccact cacagagtca ccgagtggac ctggggaccc 240  
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cctccagagg atgtatggct 300  
gcgacgtggg gtcggactgg cgttctctgc gcgggtacca ccagtacgcc tacgacggca 360  
aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420  
agaccacaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcacgg 546

<210> 62  
<211> 546  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 62

```

gctctcactc catgaggtat ttcttcacat ccgtgtccc gcccggccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180
acgaggagac agggaaagtg aaggccact cacagactga ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

```

&lt;210&gt; 63

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 63

```

gctctcactc catgaggtat ttcttcacat ccgtgtccc gcccggccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagcggaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

```

&lt;210&gt; 64

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 64

```

gctccactc catgaggtat ttcttcacat ccatgtccc gcccggccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagagg atgtatggct 300
gcgacgtggg gccggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtgagga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

```

&lt;210&gt; 65

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 65

```

gctctcactc catgaggtat ttctacacct ccgtgtccc gcccggccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300

```

gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttggac cgcggcggac atggcagctc 420  
 agaccacaa gcacaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 66  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 66  
 gctctcactc catgaggtat ttcttccat ccgtgtccc gcccgccgc ggggagcccc 60  
 gcttcatcgc agtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180  
 acggggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtatga acagcacgcc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttggac cgcggcggac atggcagctc 420  
 agaccacaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 67  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 67  
 gctctcactc catgaggtat ttctacacct ccgtgtccc gcccgccgc ggggagcccc 60  
 gcttcatcgc agtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180  
 acggggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
 gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttggac cgcggcggac atggcagctc 420  
 agaccacaa gcacaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480  
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 68  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 68  
 gctctcactc catgaggtat ttcttccat ccgtgtccc gcccgccgc ggggagcccc 60  
 gcttcatcgc agtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180  
 accggaacac acggaatgtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
 gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttggac cgcggcggac atggcagctc 420  
 agaccacaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 69  
 <211> 895  
 <212> DNA  
 <213> Homo sapiens

<400> 69  
 atggccgtca tggcgccccg aaccctcgct ctgctactct cgggggctct ggcctgacc 60  
 cagacctggg cgggctctca ctccatgagg tatttcttca catccgtgtc cggccccggc 120  
 cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggt 240  
 ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac tcaccgagtg 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360  
 aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta ccaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctacgaccac caagcacaag tgggaggcgg ccatgtggc ggagcagttg 540  
 agagcctacc tggaggggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgccccaaa acgcatatga ctcaccacgc tgtctctgac 660  
 catgaagcca cctgagggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa cctccagaa gtggcgggct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atggg 895

<210> 70  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 70atggccgtca tggcgccccg aaccctcgct ctgctactct cgggggctct ggcctgacc 60  
 cagacctggg cgggctctca ctccatgagg tatttctaca cctccgtgtc cggccccggc 120  
 cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggt 240  
 ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagtg 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccctccag 360  
 atgatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta ccaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctacgaccac caagcacaag tgggaggcgg ccatgtggc ggagcagttg 540  
 agagcctacc tggaggggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgccccaaa acgcatatga ctcaccacgc tgtctctgac 660  
 catgaagcca cctgagggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa cctccagaa gtggcgggct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897

<210> 71  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 71  
 gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccgccgc ggggagcccc 60  
 gtttcatcgc agtgggctac gtggacgaca gcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180  
 acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggacc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cctccagagg atgtatggct 300  
 gcgacgtggg gtgcgactgg cgcttctcc cggggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttgac cgcgggcgac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacgg 546

<210> 72  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 72  
 gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccgggccg gaggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcagacccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180  
 acggggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgggcta ctacaaccag agcaggccg gttctcacac cgtccagagg atgtatggct 300  
 gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacgca 360  
 aggtattacat cgcctgaaa gaggacctgc gctcttgac cgcggcgac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcgccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacggacgc cccaaaacg catatgactc accacgtgt ctctgacct gaagccacc 600  
 tgagtgctg gccctgagc ttctaccctg cggagatcac actgacctgg cagcgggatg 660  
 gggaggacca gaccaggac acggagctc tggagaccag gcctgcaggg gatggaacct 720  
 tccagaagtg ggcggctgtg gtgtgcctt ctggacagga gcagagatac acctgccatg 780  
 tgcagcatga gggttgcc aagccctca cctgagatg gg 822

<210> 73  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 73  
 gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccgggccg ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcagacccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180  
 acggggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgggcta ctacaaccag agcaggccg gttctcacac cgtccagagg atgtatggct 300  
 gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagttcgcc tacgacgca 360  
 aggtattacat cgcctgaaa gaggacctgc gctcttgac cgcggcgac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcgccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacgg 546

<210> 74  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 74  
 atggccgtca tggcgcccc aaccctctc ctgctactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttctca catccgtgtc ccggcccgcc 120  
 cgcggggagc cccgttcat cgcgtgggc tacgtggagc acacgcagtt cgtgcggtc 180  
 gacagcgac cgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccgagttatt gggaccagga gacacggaat gtgaaggccc agtcacagac tgaccgagtg 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 ataattgatg gctgcgacgt ggggtcgac gggcgcttc tccggggta ccggcaggac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctcatatcac caagcgcaag tgggagggcg cccatgaggc ggagcagttg 540  
 agagcctacc tggatggcac gtgcgtggag tggctccga gatactgga gaacgggaag 600  
 gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcctg ggcttctacc ctgcggagat cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtggcggtc gtgtgtgc cttctggaga ggagcagaga 840  
 tacacctgc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 75  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 75  
 gctccactc catgaggtat ttcttcacat cgtgtcccg gcccgccgc ggggagcccc 60  
 gttcatcgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cggcgccgt ggatagagca ggagggccg gagtattggg 180  
 accaggagac acggaatgtg aaggccagt cacagactga ccgagtggac ctggggaccc 240  
 tgcgcgcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gtcggacggg cgttctctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcttgac cgcggcggac atggcggctc 420  
 agatcaccaa gcgcaagtgg gaggcgccc atgaggcgga gcagctgaga gcctacctgg 480  
 atggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 76  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 76  
 gctccactc catgaggtat ttcttcacat cgtgtcccg gcccgccgc ggggagcccc 60  
 gttcatcgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cggcgccgt ggatagagca ggagggccg gagtattggg 180  
 accaggagac acggaatgtg aaggccagt cacagactga ccgagtggac ctggggaccc 240  
 tgcgcgcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gtcggacggg cgttctctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcttgac cgcggcggac atggcggctc 420  
 agatcaccaa gcgcaagtgg gaggcgccc atgaggcgga gcagttgaga gcctacctgg 480  
 atggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 77  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 77  
 atggcgtca tggcgcccc aacctctc ctgctactct cggggccct gccctgacc 60  
 cagacctggg cgggtccca ctccatgagg tatttcttca catccgtgc cggcccgc 120  
 cgcggggagc cccgttcat cgcgtggg tacgtggac acacgcagtt cgtgcggtc 180  
 gacagcgac cgcgagcca gaggatggag cgcggggc cgtggataga gcaggaggg 240  
 ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac tgaccgagt 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 ataattgatg gctgcgacgt ggggtcgac gggcgttcc tccgaggta ccggcaggac 420  
 gcctacgac gcaaggatta catgccctg aacgaggacc tgcgtcttg gaccgcggc 480  
 gacatggcg ctcagatcac caagcgcaag tgggagcg cccatgtggc ggagcagcag 540  
 agagcctacc tggatggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac 660  
 catgaggcca cctgagggtg ctggccctg ggcttctacc ctgcggagat cacttgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780

ggggatggaa ccttcagaa gtgggcggct gtggtggtgc cttctggaga ggagcagaga 840  
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 78  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 78  
atggccgtca tggcgccccg aacctctctc ctgctactct cggggggcct ggccctgacc 60  
cagacctggg cgggctcca ctccatgagg tatttcttca catccgtgtc ccggcccggc 120  
cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac tgaccgagtg 300  
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
ataatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccggcaggac 420  
gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgctcttg gaccgcggcg 480  
gacatggcgg ctcatgacac caagcgcaag tgggagggcg cccatgaggc ggagcagttg 540  
agagcctacc tggatggcac gtgcgtggag tggctccgca gatacctgga gaaccggaag 600  
gagacgctgc agcgacagga ccccccaag acacatatga cccaccaccc catctctgac 660  
catgaggcca cctgagggtg ctgggccctg ggttcttacc ctgcggagat cacactgacc 720  
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
ggggatggaa ccttcagaa gtgggcggct gtggtggtgc cttctggaga ggagcagaga 840  
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 79  
<211> 858  
<212> DNA  
<213> Homo sapiens

<400> 79  
tctcgggggc cctggccctg acccagacct gggcgggctc ccactccatg aggtatttct 60  
tcacatcgt gtcccggccc ggccgcgggg agccccgtt catgcctgtg ggctacgtgg 120  
acgacacgca gttcgtgagg ttcgacagcg acgcccggag ccagaggatg gagccgcggg 180  
cgccgtggat agagcaggag gggccggagt attgggacca ggagacacgg aatgtgaagg 240  
cccagtcaca gactgacga gtggacctgg ggacctgag cggtactac aaccagagcg 300  
aggccggttc tcacaccatc cagataatgt atggctgca cgtggggtcg gacgggcgt 360  
tcctccggg gtaccggcag gacgcctacg acggcaagga ttacatgcc ctgaacgagg 420  
acctgcgtc ttggaccgag gggacatgg cggctcagat caccaagcgc aagtgggagg 480  
cggccatga ggcggagcag ttgagagcct acctggaggg cactgctg gagtggctcc 540  
gcagatacct ggagaacggg aaggagacgc tgcagcgac ggaccccc aagacacata 600  
tgaccacca cccatctct gacctgagg ccacctgag gtgctgggccc ctgggttct 660  
acctgcgga gatcacactg acctggcagc gggatgggga ggaccagacc caggacacgg 720  
agctcgtgga gaccaggcct gcaggggatg ~~gaaccttca~~ gaagtgggag gctgtggtgg 780  
tgccttctgg agaggagcag agatacact gccatgtgca gcatgagggt ctgccaagc 840  
ccctcacct gatgagg 858

<210> 80  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 80gtctccactc catgaggtat ttcttcacat ccgtgtccc gcccggccgc ggggagcccc 60  
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gaggattggg 180  
accaggagac acggaatgtg aaggccagt cacagactga ccgagtggac ctggggaccc 240  
tgccgggcta ctacaaccag agcgaggccg gttctcacac catcagata atgtatggt 300

gcgacgtggg gtcggacggg cgcttctcc gcggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcttgac cgcgccggac atggcggctc 420  
 agatcaccaa gcgcaagtgg gagggcgccc atgaggcgga gcagttgaga gcctacctgg 480  
 atggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 81  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 81  
 gctccactc catgaggtat ttcttcacat ccgtgtccc gcccgccgc ggggagcccc 60  
 gttcatcgc cgtgggctac gtggacgaca cgagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggccg gagtattggg 180  
 accaggagac acggaatgtg aaggccagt cacagactga ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcttgac cgcgccggac atggcggctc 420  
 agatcaccaa gcgcaagtgg gagggcgccc atgtggcgga gcagttgaga gcctacctgg 480  
 atggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 82  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 82  
 gctccactc catgaggtat ttcttcacat ccgtgtccc gcccgccgc ggggagcccc 60  
 gttcatcgc cgtgggctac gtggacgaca cgagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggccg gagtattggg 180  
 accaggagac acggaatgtg aaggccagt cacagactga ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcttgac cgcgccggac atggcggctc 420  
 agatcaccaa gcgcaagtgg gagggcgccc atgaggcgga gcagttgaga gcctacctgg 480  
 atggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 83  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 83  
 gctccactc catgaggtat ttcttcacat ccgtgtccc gcccgccgc ggggagcccc 60  
 gttcatcgc cgtgggctac gtggacgaca cgagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggccg gagtattggg 180  
 accaggagac acggaatgtg aaggccagt cacagactca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcttgac cgcgccggac atggcggctc 420  
 agatcaccaa gcgcaagtgg gagggcgccc atgaggcgga gcagttgaga gcctacctgg 480  
 atggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546



<210> 84  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 84  
 gctcccactc catgaggtat ttcttcacat ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cggcgccgt gatatagca ggaggggccc gagtattggg 180  
 accaggagac acggaatgtg aaggccagt cacagactga ccgagtggac ctggggaccc 240  
 tgcgcgcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcttgac cgcggcgac atggcggtc 420  
 agatcacaa gcgcaagtgg gaggcgccc atgtggcgga gcagcagaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 85  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 85  
 atggccgtca tggcgcccc aacctctc ctgctactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc ccggcccggc 120  
 cgcggggagc ccgcttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggtc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac tgaccgagt 300  
 gacctgggga ccctgcgcg ctactacaac cagagcgagg acggttctca caccatccag 360  
 ataatgtatg gctgcgacgt ggggcccggac gggcgcttc tccggggta ccggcaggac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcttg gaccgcgcg 480  
 gacatggcag ctcatgac caagcgcaag tgggaggcgg ccatgcggc ggagcagcag 540  
 agagcctacc tggagggcgg gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac 660  
 catgaggcca cctgagggtg ctgggacctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtggcggtg gtgtgtgtc cttctggaga ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 86  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 86  
 gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cggcgccgt gatatagca ggaggggccc gagtattggg 180  
 accaggagac acggaatgtg aaggccagt cacagactga ccgagtggac ctggggaccc 240  
 tgcgcgcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gccggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcttgac cgcggcagac atggcagctc 420  
 agatcacaa gcgcaagtgg gaggcgccc atgcggcgga gcagcagaga gcctacctgg 480  
 agggcgggtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacggaccc cccaagaca catatgacc accacccat ctctgacct gaggccacc 600  
 tgagggtctg ggcctgggc ttctacctg cggagatcac actgacctg cagcgggatg 660  
 gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg gatggaacct 720

tccagaagtg ggcggctgtg gtggtgcctt ctggagagga gcagagatac acctgccatg 780  
tgcagcatga gggctctgcc aagccctca ccctgagatg gg 822

<210> 87  
<211> 895  
<212> DNA  
<213> Homo sapiens

<400> 87  
atggccgtca tggcgccccg aaccctctc ctgctactct cgggggccct ggccctgacc 60  
cagacctggg cgggctccca ctccatgagg tatttttaca cctccgtgtc cgggcccggc 120  
cgcggggaagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac tgaccgagtg 300  
gacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360  
ataatgtatg gctgcgacgt ggggcccggac gggcgcttcc tccgcgggta ccggcaggac 420  
gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgctcttg gaccgcggcg 480  
gacatggcag ctcagatcac caagcgaag tgggaggcgg cccatgcggc ggagcagcag 540  
agagcctacc tggagggcgg gtgctccgca gatacctgga gaacgggaag 600  
gagacgtcgc agcgcacgga ccccccaag acatatga cccaccacc catctctgac 660  
catgaggcca cctgagggtg ctgggccctg gcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
ggggatggaa ccttcagaa gtgggcggct gtggtgtgct cttctggaga ggagcagaga 840  
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggg 895

<210> 88  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 88  
gtccccctc catgaggtat ttctacacct ccgtgtcccc gcccgggcgc ggggagcccc 60  
gtttcatcgc cgtgggttac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccagag gatggagccg cggcgccgt ggtatagaga ggagggggcg gagtattggg 180  
accaggagag ccggaatgtg aagccccagt cacagactga ccgagtggac ctggggaccc 240  
tgccgggcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300  
gcgacgtggg gccggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
aggattacat gcacctgaac gaggacctgc gctcttgac cgcgccggac atggcagtc 420  
agatcaccaa gcgaagtgg gaggcgccc gtgaggcgga gcagcagaga gcctacctgg 480  
agggccgggtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcacgg 546

<210> 89  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 89  
atggccgtca tggcgccccg aaccctctc ctgctactct cgggggccct ggccctgacc 60  
cagacctggg cgggctccca ctccatgagg tatttttaca cctccgtgtc cgggcccggc 120  
cgcggggaagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac tgaccgagtg 300  
gacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360  
ataatgtatg gctgcgacgt ggggcccggac gggcgcttcc tccgcgggta ccggcaggac 420  
gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgctcttg gaccgcggcg 480  
gacatggcag ctcagatcac caagcgaag tgggaggcgg cccatgcggc ggagcagcag 540  
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600

gagacgctgc agcgacagga ccccccaag acacatatga cccaccaccc catctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcggct gtggtggtgc cttctggaga ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 90  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 90atggccgtca tggcgccccg aacctctctc ctgtactct cgggggccct ggcctgacc 60  
 cagacctggg cgggctccca ctccatgagg ttttctaca cctccgtgc cggcccggc 120  
 cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac tgaccgagt 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360  
 ataatgtatg gctgcgacgt ggggccggac gggcgcttc tccgcgggta ccggcaggac 420  
 gcctagcagc gcaaggatta catgcctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctacgatcac cgagcgcaag tgggaggcgg cccatgcggc ggagcagcag 540  
 agagcctacc tggaggggcg gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgctgc agcgacagga ccccccaag acacatatga cccaccaccc catctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcggct gtggtggtgc cttctggaga ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 91  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 91  
 gtccctcctc catgaggtat ttctacacct ccgtgtcccg gcccgggcgc ggggagcccc 60  
 gcttcacgc cgtgggtctac gtggacgaca cgagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180  
 accaggagac acggaatgtg aaggccagt cacagactca ccgagtggac ctggggaccc 240  
 tgcggcgcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gccggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcttgac cgcgccggac atggcagctc 420  
 agatcaccaa gcgcaagtgg gaggcggccc atgcggcgga gcagcagaga gcctacctgg 480  
 agggccgggtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 92  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 92  
 atggccgtca tggcgccccg aacctctctc ctgtactct cgggggccct ggcctgacc 60  
 cagacctggg cgggctccca ctccatgagg ttttctaca cctccgtgc cggcccggc 120  
 cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac tgaccgagt 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360  
 ataatgtatg gctgcgacgt ggggccggac gggcgcttac tccgcgggta ccggcaggac 420

gcctacgacg gcaaggatta catgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
gacatggcag ctcatatcac caagcgcaag tgggaggcgg cccatgcggc ggagcagcag 540  
agagcctacc tggagggcgg gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac 660  
catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
ggggatgga ccttcagaa gtggcggtg gtgtgtgtc cttctggaga ggagcagaga 840  
tacactgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 93  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 93  
gctccactc catgaggtat ttctacacct cgtgtcccg gcccgccgc ggggagcccc 60  
gcttcatgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggggccg gattattggg 180  
accaggagac acggaatgtg aaggccagc cactagactga ccgagtgga ctggggaccc 240  
tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300  
gcgacgtggg gccggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctgc gctcttgga cgcggcggac atggcagctc 420  
agatcaccaa gcgcaagtgg gaggcgcccc atgaggcgga gcagcgagga gcctacctgg 480  
aggcgccgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
gcacgg 546

<210> 94  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 94  
gctccactc catgaggtat ttctacacct cgtgtcccg gcccgccgc ggggagcccc 60  
gcttcatgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggggccg gattattggg 180  
accaggagac acggaatgtg aaggccagc cactagactga ccgagtgga ctggggaccc 240  
tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300  
gcgacgtggg gccggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctgc gctcttgga cgcggcggac atggcagctc 420  
agatcaccaa gcgcaagtgg gaggcgcccc atgaggcgga gcagcgagga gcctacctgc 480  
aggcgccgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
gcacgg 546

<210> 95  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 95  
gctccactc catgaggtat ttctacacct cgtgtcccg gcccgccgc ggggagcccc 60  
gcttcatgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggggccg gattattggg 180  
accggaacac acggaatgtg aaggccagc cactagactga ccgagtgga ctggggaccc 240  
tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300  
gcgacgtggg gccggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctgc gctcttgga cgcggcggac atggcagctc 420  
agatcaccaa gcgcaagtgg gaggcgcccc atgaggcgga gcagcgagga gcctacctgg 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcacgg 546

<210> 96  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 96  
gctccactc catgaggtat ttctacacct cgtgtccc gccggccgc ggggagcccc 60  
gttcatcgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccagag gatggagccg cgggcgcgt ggatagagca ggagggccg gattattggg 180  
acctgcagac acggaatgtg aaggccagt cacagactga ccgagtgac ctggggacc 240  
tgccggcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300  
gcgacgtgg gccggacgg cgcttctcc ggggtaccg gcaggaccc tacgacgca 360  
aggattacat cgccctgaac gaggacctgc gctctggac cgcggcgac atggcagtc 420  
agatcaccaa gcgaagtgg gagggcccc atggcgga gcagcagaga gcctacctg 480  
agggccggtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcacgg 546

<210> 97  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 97  
ggctccact ccatgaggtat ttctacacct tccgtgtccc gccggccgc ggggagcccc 60  
cgcttcatc cgtgggtac cgtggacgac acgcagttcgt tgcggttcga cagcagccc 120  
gcgagccaga ggtggagcc gccggcgccg tggatagagc agggggccg ggagtattgg 180  
gaccaggaga caggaatgt gaaggccag tcacagactg accgagtga cctggggacc 240  
ctgcgggct actacaacca gagcgaggcc ggttctcaca ccatccagat aatgtatggc 300  
tgcgacgtg gccggacgg gcgcttctc cgcgggtacc ggcaggacgc ctacgacgc 360  
aaggattaca tgcctgaa cgaggacctg cgctcttga cgcggcgga catggcagct 420  
cagatcacca agcgaagtg gagggcgcc catcgcgga agcagcagag agcctacctg 480  
gagggccggt cgtggagtg gctccgaga tacctggaga acgggaagga gacgctgcag 540  
cgacg 546

<210> 98  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 98  
gctccactc catgaggtat ttctacacct cgtgtccc gccggccgc ggggagcccc 60  
gttcatcgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccagag gatggagccg cgggcgcgt ggatagagca ggagggccg gattattggg 180  
accaggagac acggaatgtg aaggccagt cacagactga ccgagtgac ctggggacc 240  
tgccggcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300  
gcgacgtgg gccggacgg cgcttctcc ggggtaccg gcaggaccc tacgacgca 360  
aggattacat cgccctgaac gaggacctgc gctctggac cgcggcgac atggcagtc 420  
agatcacca gcgaagtgg gagggcccc atggcgga gcagcagaga gcctacctg 480  
agggccggtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcacgg 546

<210> 99  
<211> 573

<212> DNA  
<213> Homo sapiens

<400> 99  
ccctggccct gaccagacc tggcgggct ccactccat gaggtatttc tacacctcg 60  
tgtccggcc cgcccgagg aagcccgct tcctgcctg gggctacgt gacgacacgc 120  
agttcgtgc gttcgacag gaccccgga gccagaggat ggagccgag gcgccgtgga 180  
tagagcagga ggggcccggg tattgggacc aggagacac gaatgtgaag gccagtcac 240  
agactgacc agtggacct gggacctgc gggctacta caaccagagc gaggacggt 300  
ctcacacat ccagataat tatggctgc acgtggggcc ggacgggagc ttctccgag 360  
ggtaccggca ggacgctac gacggcaagg attacatgc cctgaacgag gacctgcgt 420  
cttgaccgc ggcggacat gcagctcaga tcaccaagc caagtggag gcggccgctc 480  
ggcgaggca gcagagagcc tacctggagg gccgtgct ggagtggctc gcagatacc 540  
tggaagcgg gaaggagac ctgcagcga cgg 573

<210> 100  
<211> 897  
<212> DNA  
<213> Homo sapiens  
<400> 100

atggcgtca tggcgcccc aacctcgtc ctgtactct cggggccct ggccctgacc 60  
cagacctggg caggctcca ctccatgagg tatttctcca catcgtgtc ccggccggc 120  
cgcggggagc cccgctcat cgcgtggg tacgtggag acacgcagtt cgtgcggtc 180  
gacagcgag ccgagagca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac tgaccgagag 300  
aacctgcgga tcgctcgc ctactacaac cagagcgagg ccggttctca caccctccag 360  
atgatgttt gctgcgact ggggtcggac gggcgcttc tccgcggtta ccaccgtac 420  
gcctacgag gcaaggatta catgccttg aaagaggacc tgcgtcttg gaccgcggc 480  
gacatggcg ctcagatcac ccagcgcaag tgggaggcgg ccggtgtggc ggagcagttg 540  
agagcctacc tggagggcac gtgcgtggac gggctccga gatacctgga gaacgggaag 600  
gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac 660  
catgaggcca ctctgagatg ctgggcccgt ggttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780  
gggatggaa cttccagaa gtgggcagct gtggtgtac ctctggaga ggagcagaga 840  
tacacctgc atgtgcaga tgagggtct ccaagcccc tcacctgag atgggag 897

<210> 101  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 101  
gctccactc catgaggtat ttctccat cgtgtccc gcccggcgc ggggagcccc 60  
gttcatcgc cgtgggtac gtggagaca gcagttcgt gcggttcgac agcgacccg 120  
cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccc gattattggg 180  
acgaggagac agggaaagt aaggccact cacagactga ccagagaaac ctgcggatc 240  
cgtccgcta ctacaacc agcgaggccg gttctcacac cctccagatg atgtttggt 300  
gcgacgtgg gtcggacggg cgttccctc cggggtacca ccagtacgc tacgacggca 360  
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgccggac atggcggtc 420  
agatcaccca gcgaagtgg gaggcgccc gtgtggcga gcagtggaga gcctacctg 480  
agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
gcacgg 546

<210> 102  
<211> 546  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 102

```

gctccactc catgaggtat ttctccacat cegtgtcccg gcccgcccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
acgaggagac agggaaagtg aaggcccact cacagactga ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgccttgaac gaggacctgc gctcttgac gcggcgccgac atggcggtc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 103

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 103

```

gctccactc catgaggtat ttctccacat cegtgtcccg gcccgcccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
acgaggagac agggaaagtg aaggcccact cacagactga ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgccttgaac gaggacctgc gctcttgac gcggcgccgac atggcggtc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 104

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 104

```

gctccactc catgaggtgt ttctccacat cegtgtcccg gcccgcccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
acgaggagac agggaaagtg aaggcccact cacagactga ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgccttgaac gaggacctgc gctcttgac gcggcgccgac atggcggtc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 105

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 105

```

atggccgtca tggcgcccc aaccctcgtc ctgctactct cgggggcctt ggcctgacc 60
cagacctggg caggtccca ctccatgagg tatttctcca catccgtgtc ccggcccggc 120
cgccggggagc cccgcttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240
ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac tgaccgagag 300

```

aacctgcgga tcgcgtccg ctactacaac gagagcgagg ccggttctca caccctccag 360  
atgatgtttg gctgcgacgt ggggtcggac gggcgcttc tccgcgggta ccaccagtac 420  
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480  
gacatggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagttg 540  
agagcctacc tggagggcac gtgcgtggac gggctccgca gatactgga gaacgggaag 600  
gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac 660  
catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780  
ggggatggaa ccttcagaa gtgggcagct gtggtgttac cttctggaga ggagcagaga 840  
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggggag 897

&lt;210&gt; 106

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 106

atggccgtca tggcgccccg aacctcgtc ctgtactct cgggggccct ggccctgacc 60  
cagacctggg caggctccca ctccatgagg tatttctcca catccgtgtc ccggcccggc 120  
cgcgggggagc cccgttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
ccggagtatt gggaccagga gacacggaat atgaaggccc actcacagac tgaccgagag 300  
aacctgcgga tcgcgtccg ctactacaac gagagcgagg ccggttctca caccctccag 360  
atgatgtttg gctgcgacgt ggggtcggac gggcgcttc tccgcgggta ccaccagtac 420  
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480  
gacatggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagttg 540  
agagcctacc tggagggcac gtgcgtggac gggctccgca gatactgga gaacgggaag 600  
gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac 660  
catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780  
ggggatggaa ccttcagaa gtgggcagct gtggtgttac cttctggaga ggagcagaga 840  
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggggag 897

&lt;210&gt; 107

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 107

atggccgtca tggcgccccg aacctcgtc ctgtactct cgggggccct ggccctgacc 60  
cagacctggg caggctccca ctccatgagg tatttctcca catccgtgtc ccggcccggc 120  
cgcgggggagc cccgttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac tgaccgagag 300  
aacctgcgga tcgcgtccg ctactacaac gagagcgagg ccggttctca caccctccag 360  
atgatgtttg gctgcgacgt ggggtcggac gggcgcttc tccgcgggta ccaccagtac 420  
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480  
gacatggcgg ctcatatcac caagcgcaag tgggaggcgg cccatgtggc ggagcagcag 540  
agagcctacc tggagggcac gtgcgtggac gggctccgca gatactgga gaacgggaag 600  
gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac 660  
catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780  
ggggatggaa ccttcagaa gtgggcagct gtggtgttac cttctggaga ggagcagaga 840  
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggggag 897

&lt;210&gt; 108

&lt;211&gt; 546



<212> DNA  
<213> Homo sapiens

<400> 108  
gctccactc catgaggtat ttctccacat cgtgtcccg gcccgccgc ggggagcccc 60  
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240  
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300  
gcgacgtggg gtcggacggg cgcttctcc gcggtacca ccagtacgc tacgacggca 360  
aggattacat cgccctgaaa gaggacctgc gctctggac cgcggcggac atggcagctc 420  
agatcaccaa gcgaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480  
agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcacgg 546

<210> 109  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 109  
atggcgtca tggcgcccc aacctcgtc ctgctactct cgggggccct ggccctgacc 60  
cagacctggg caggctcca ctccatgagg tatttctcca catcgtgtc ccggcccggc 120  
cgcggggagc cccgcttcac cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac tgaccgagag 300  
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccggttctca caccctccag 360  
atgatgtttg gctgcgacgt ggggtcggac gggcgcttc tccgcgggta ccaccagtac 420  
gcctacgacg gcaaggatta catgcacctg aaagaggacc tgcgtcttg gaccgcggcg 480  
gacatggcgg ctcagatcac caagcgcaag tgggaggcgg cccatgtggc ggagcagcag 540  
agagcctacc tggagggcac gtgcgtggac gggtccgca gatacttga gaacgggaag 600  
gagacgtgc agcgacgga ccccccaag acatatga cccaccacc catctctgac 660  
catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcagagat cacactgacc 720  
tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780  
ggggatggaa cttccagaa gtgggcagct gtggtgttac cttctggaga ggagcagaga 840  
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 110  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 110gctccactc catgaggtat ttctccacat cgtgtcccg gcccgccgc ggggagcccc 60  
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240  
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300  
gcgacgtggg gtcggacggg cgcttctcc gcggtacca ccagtatgcc tacgacggca 360  
aggattacat cgccctgaaa gaggacctgc gctctggac cgcggcggac atggcggctc 420  
agatcaccaa gcgaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480  
agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcacgg 546

<210> 111  
<211> 897  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 111

```

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggcctt ggccctgacc    60
cagacctggg caggctccca ctccatgagg tatttctcca catccgtgtc ccggcccggc    120
cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc    180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg    240
ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac tgaccgagag    300
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccggttctca caccctccag    360
atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccaccagtac    420
gcctacgacg gcaaggatta catgccctg aaagaggacc tgcgtcttg gaccgcggcg    480
gacatggcgg ctcatatcac caagcgcaag tgggagggcg ccatgtggc ggagcagcag    540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag    600
gagacgtgc agcgacgga ccccccaag acacatatga ccaccaccc catctctgac    660
catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat cactctgacc    720
tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca    780
ggggatggaa ccttcagaa gtgggcagct gtggtgttac cttctggaga ggagcagaga    840
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggggag    897

```

&lt;210&gt; 112

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 112

```

gtcctcactc catgaggtat ttctccacat ccgtgtcccg gcccgggcgc ggggagcccc    60
gtttcatgcg cgtgggtacg gtggacgaca cgcagttcgt gcggttcgac agcgacgccg    120
cgagccagag gatggagccg cggcgccgtt ggatagagca ggagggggcg gagtattggg    180
acgaggagac agggaaagtg aaggccact cactagactga ccgagagaa ctcgggatcg    240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct    300
gcgacgtggg gtgcgacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca    360
aggattacat cgcctgaaa gaggacctgc gctcttgga cgcggcggac atggcggtc    420
agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg    480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc    540
gcactg                                           546

```

&lt;210&gt; 113

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 113

```

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggcctt ggccctgacc    60
cagacctggg caggctccca ctccatgagg tatttctcca catccgtgtc ccggcccggc    120
cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc    180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg    240
ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac tgaccgagcg    300
aacctgggga ccctgcggg ctactacaac cagagcgagg ccggttctca caccctccag    360
atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccaccagtac    420
gcctacgacg gcaaggatta catgccctg aaagaggacc tgcgtcttg gaccgcggcg    480
gacatggcgg ctcatatcac caagcgcaag tgggagggcg ccatgtggc ggagcagcag    540
agagcctacc tggagggcac gtgcgtggac gggctccgca gatactgga gaacgggaag    600
gagacgtgc agcgacgga ccccccaag acacatatga ccaccaccc catctctgac    660
catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat cactctgacc    720
tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca    780
ggggatggaa ccttcagaa gtgggcagct gtggtgttac cttctggaga ggagcagaga    840
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggggag    897

```

<210> 114  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 114  
 gctccactc catgaggtat ttctccacat cegtgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 acgaggagac agggaaagt aaggccact cacagactga ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300  
 gcgacgtggg gtccgacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttgac cgcgccggac atggcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480  
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 115  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 115  
 gctccactc catgaggtat ttctccacat cegtgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 acgaggagac agggaaagt aaggccact cacagactga ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300  
 gcgacgtggg gtccgacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttgac cgcgccggac atggcggctc 420  
 agatcaccaa gcgaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480  
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 116  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens  
 <400> 116

atggccgtca tggcgcccc aacctcgtc ctgctactct cgggggccct ggccctgacc 60  
 cagacctggg caggctcca ctccatgagg tatttctca catccgtgc ccggcccggc 120  
 cgcggggagc cccgctcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggtc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggacgagga gacagggaa ~~gtgaaagaa~~ gtcacagac tgaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccggttctca cacctccag 360  
 atgatgttg gctgcgact ggggtcggac gggcgcttc tccgcggtta ccaccagtac 420  
 gcctacgacg gcaaggatta catgccttg aaagaggacc tgcgtcttg gaccgcggc 480  
 gacatggcgg ctcatgac caagcgcaag tgggaggcgg ccatgtggc ggagcagcag 540  
 agagcctact tggagggcac gtgcgtggac gggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac 660  
 catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcagct gtggtgttac cttctggaga ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggggag 897

<210> 117  
 <211> 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 117

```

atggccgtca tggcgccccg aacctcgtc ctgctactct cgggggccct ggcctgacc   60
cagacctggg caggctcca atccatgagg tatttctcca catccgtgtc ccggcccggc   120
cgcgggggagc cccgcttcat cgcgtgggc tacgtggacg acacgcagtt cgtcggttc   180
gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg   240
ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tgaccgagag   300
aacctcgga tcgcgtccg ctactacaac cagagcgagg ccggttctca caccctccag   360
atgatgtttg gctgcgacgt ggggtcggac gggcgcttc tccgcgggta ccaccgtac   420
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg   480
gacatggcgg ctcagatcac caagcgcaag tgggaggcgg cccatgtggc ggagcagcag   540
agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga gaacgggaag   600
gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac   660
catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat cacactgacc   720
tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca   780
ggggatggaa cttccagaa gtgggcagct gtgttggtac ctctggaga ggagcagaga   840
tacacctgcc atgtgcagca tgagggtctg ccaagcccc tcacctgag atggggag   897

```

&lt;210&gt; 118

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 118

```

gctcccactc catgaggtat ttctccacat cgtgtccc gcccggccgc ggggagcccc   60
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg   120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg   180
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg   240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct   300
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca   360
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgccggac atggcggctc   420
agatcaccaa gcgaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg   480
agggccggtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc   540
gcacgg                                           546

```

&lt;210&gt; 119

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 119

```

gctcccactc catgaggtat ttctccacat cgtgtccc gcccggccgc ggggagcccc   60
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg   120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg   180
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg   240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct   300
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca   360
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgccggac atggcggctc   420
agatcaccaa gcgaagtgg gaggcggccc atgtggcgga gcagtgaga gcctacctgg   480
agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgctgcagc   540
gcacgg                                           546

```

&lt;210&gt; 120&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 120

```

gctccactc catgaggtat ttctccacat ccgtgtcccg gccggccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcggctc 420
agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 121

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 121

```

gctccactc catgaggtat ttctccacat ccgtgtcccg gccggccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtatggct 300
gcgacgtggg gccggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcggctc 420
agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 122

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 122

```

gctccactc catgaggtat ttctccacat ccgtgtcccg gccggccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcggctc 420
agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 123

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 123

```

gctccactc catgaggtat ttctccacat ccgtgtcccg gccggccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300

```

gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgccggac atggcggtc 420  
agatcaccaa gcgcaagtgg gaggcgggcc atgaggcgga gcagttgaga gcctacctgg 480  
atggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcacgg 546

<210> 124  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 124  
gtccccactc catgaggtat ttctccacat ccgtgtccc gcccgccgc ggggagcccc 60  
gttcatcgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
cgagccagag gatggagccg cggcgccgt ggatagagca ggagggccg gattattggg 180  
acgaggagac agggaaagtg aaggccagt cacagactga ccgagtgac ctggggacc 240  
tgcgggcta ctacaaccag agcgaggacg gttctcacac cctccagatg atgttggt 300  
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgccggac atggcggtc 420  
agatcaccaa gcgcaagtgg gaggcgggcc atgtggcgga gcagcagaga gcctacctgg 480  
agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcacgg 546

<210> 125  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 125  
gtccccaatc catgaggtat ttctccacat ccgtgtccc gcccgccgc ggggagcccc 60  
gttcatcgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
cgagccagag gatggagccg cggcgccgt ggatagagca ggagggccg gattattggg 180  
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatc 240  
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgttggt 300  
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgccggac atggcggtc 420  
agatcaccaa gcgcaagtgg gaggcgggcc atgtggcgga gcagcagaga gcctacctgg 480  
agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcacgg 546

<210> 126  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 126  
gtccccactc catgaggtat ttctccacat ccgtgtccc gcccgccgc ggggagcccc 60  
gttcatcgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
cgagccagag gatggagccg cggcgccgt ggatagagca ggagggccg gattattggg 180  
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatc 240  
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgttggt 300  
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
aggattacat cgccctgaa gaggacctgc gctcttgac cgcgccggac atggcggtc 420  
agatcaccaa gcgcaagtgg gaggcgggcc atgtggcgga gcagcagaga gcctacctgg 480  
agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcacgg 546

<210> 127  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 127  
atggccgtca tggcgccccg aacctcgtc ctgtactct cgggggccct ggcctgacc 60  
cagacctggg caggctcca ctccatgagg tatttctcca catcgtgtc ccggccggc 120  
cgcggggagc cccgcttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggtc 180  
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac tgaccgagag 300  
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccggttctca caccctccag 360  
atgatgtttg gctgcgacgt ggggtcggac gggcgcttc tccgcgggta ccaccagtac 420  
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480  
gacatggcgg ctcatgtac caagcgcaag tgggaggcgg cccatgtggc ggagcagtgg 540  
agagtctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
gagacgctgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac 660  
catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780  
ggggatggaa cctccagaa gtgggcagct gtgtgggtac cttctggaga ggagcagaga 840  
tacactgcc atgtgcagca tgagggtctg cccaagccc tcacctgag atgggag 897

<210> 128  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 128  
gtctccactc catgaggtat ttctccacat ccgtgtccc gcccggccgc ggggagcccc 60  
gtttcatcgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
cgagccagag gatggagccg cgggcgccgt gtagagagca ggaggggccc gattattggg 180  
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240  
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggt 300  
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcggctc 420  
agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480  
agggcacgtg cgtggactgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcacgg 546

<210> 129  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 129  
gtctccactc catgaggtat ttctccacat ccgtgtccc gcccggccgc ggggagcccc 60  
gtttcatcgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
cgagccagag gatggagccg cgggcgccgt gtagagagca ggaggggccc gattattggg 180  
accggaacac acggaatgtg aaggccact cacagactga ccgagagaac ctgcggatcg 240  
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggt 300  
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcggctc 420  
agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480  
agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcacgg 546

<210> 130  
<211> 546  
<212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 130

```

gctccactc catgaggtgt ttctccacat ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180
acgaggagac agggaaagt aaggccact cacagactga ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300
gcgacgtggg gtccgacggg cgttctctcc ggggtacca ccagtacgcc tacgacggca 360
aggattacat gcacctgaaa gaggacctgc gctcttggac cgcggcggac atggcggctc 420
agatcaccaa gcgaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
agggcacgtg cgtggacggg ctcccgatg acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 131

&lt;211&gt; 599

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 131

```

aacctctc ctgctactct cgggggccct ggccctgacc cagacctggg caggctccca 60
ctccatgagg tatttctcca catccgtgtc ccggcccgcc cgcggggagc cccgcttcat 120
cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc gacagcgacg ccgcgagcca 180
gaggatggag ccgcgggccc cgtggataga gcaggagggg ccggagtatt gggacgagga 240
gacagggaaa gtgaaggccc actcacagac tgaccgagag aacctgcgga tcgcgtccg 300
ctactacaac cagagcgagg ccggttctca caccctccag atgatgtttg gctgcgacgt 360
ggggtcggac gggcgcttcc tccacgggta ccaccagtac gcctacgacg gcaaggatta 420
catgcacctg aaagaggacc tgcgtcttg gaccgcggcg gacatggcgg ctcatcac 480
caagcgcaag tgggaggcgg cccatgtggc ggagcagcag agagcctacc tggagggcac 540
gtgcgtggac gggctccgca gatacctgga gaacgggaag gagacgtgc agcgacgg 599

```

&lt;210&gt; 132

&lt;211&gt; 619

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 132

```

atggccgtca tgggccccg aacctcgtc ctgctactct cgggggccct ggccctgacc 60
cagacctggg caggctccca ctccatgagg tatttctcca catccgtgtc ccggcccgcc 120
cgcggggagc cccgcttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcgggccc cgtggataga gcaggagggg 240
ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac tgaccgagag 300
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccggttctca caccctccag 360
atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccggggta ccaccagtac 420
gctacgacg gcaaggatta catgcacctg aaagaggacc tgcgtcttg gaccgcggcg 480
gacagggcgg ctcatcac caagcgcaag tgggaggcgg cccatgtggc ggagcagcag 540
agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgacgg 619

```

&lt;210&gt; 133

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 133

```

gctccactc catgaggtat ttctccacat ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180

```



acgaggagac agggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttgac cgcgccggac atggcggtc 420  
 agatcacaa gcgcaagtgg gagggcgccc atgtggcgga gcagcagaga gcctacctgg 480  
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 134  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 134  
 gctccactc catgaggtat ttctccacat ccgtgtccc gcccgccgc ggggagcccc 60  
 gttcatcgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cggcgccgt ggatagagca ggagggccg gattattggg 180  
 acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttgac cgcgccggac atggcggtc 420  
 agatcacaa gcgcaagtgg gagggcgccc atgtggcgga gcagcagaga gcctacctgg 480  
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 135  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 135  
 gctccactc catgaggtat ttctccacat ccgtgtccc gcccgccgc ggggagcccc 60  
 gttcatcgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cggcgccgt ggatagagca ggagggccg gattattggg 180  
 acgaggagac agggaaagtg aaggccact cacagactca ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttgac cgcgccggac atggcggtc 420  
 agatcacaa gcgcaagtgg gagggcgccc atgtggcgga gcagcagaga gcctacctgg 480  
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 136  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 136  
 gctccactc catgaggtat ttctccacat ccgtgtccc gcccgccgc ggggagcccc 60  
 gttcatcgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cggcgccgt ggatagagca ggagggccg gattattggg 180  
 acgagcagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttgac cgcgccggac atggcggtc 420  
 agatcacaa gcgcaagtgg gagggcgccc atgtggcgga gcagcagaga gcctacctgg 480  
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgctgcagc 540

gcacgg

546

&lt;210&gt; 137

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 137

```

gtccccactc catgaggtat ttctccacat cegtgtcccc gcccgccgc ggggagcccc 60
gtttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180
acgaggagac agggaaagtg aaggccact cacagactga ccgagagagc ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcggcggac atggcggctc 420
agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 138

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 138

```

gtccccactc catgaggtat ttctccacat cegtgtcccc gcccgccgc ggggagcccc 60
gtttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180
acgaggagac agggaaagtg aaggccact cacagactga ccgagagAAC ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcggcggac atggcggctc 420
agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcacggacgc ccccaaacg catatgactc accacgtgt ctctgacat gaagccacc 600
tgaggtgctg ggccctgagc ttctaccctg cggagatcac actgacctgg cagcgggatg 660
gggaggacca gaccaggac acggagctcg tggagaccag gcctgcagg gatggaacct 720
tccagaagtg ggcggctgtg gtgtgcctt ctggacagga gcagagatac acctgccatg 780
tgcagcatga gggtttgc cagccctca cctgagatg gg 822

```

&lt;210&gt; 139

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 139

```

gtccccactc catgaggtat ttctccacat cegtgtcccc gcccgccgc ggggagcccc 60
gtttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180
acgaggagac agggaaagtg aaggccact cacagattga ccgagagAAC ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcggcggac atggcggctc 420
agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

```

<210> 140  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 140gctccactc catgaggtat ttctccacat ccgtgtccc gcccggccgc ggggagcccc 60  
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccagag gatggagccg tgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240  
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300  
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgccggac atggcggctc 420  
agatcaccaa gcgcaagtgg gaggcgcccc atgtggcgga gcagcagaga gcctacctgg 480  
agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcacgg 546

<210> 141  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 141  
gctccactc catgaggtat ttctccacat ccgtgtccc gcccggccgc ggggagcccc 60  
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccagag gatggagctg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240  
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300  
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgccggac atggcggctc 420  
agatcaccaa gcgcaagtgg gaggcgcccc atgtggcgga gcagcagaga gcctacctgg 480  
agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcacgg 546

<210> 142  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 142  
gctccactc catgagctat ttctccacat ccgtgtccc gcccggccgc ggggagcccc 60  
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240  
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300  
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgccggac atggcggctc 420  
agatcaccaa gcgcaagtgg gaggcgcccc atgtggcgga gcagcagaga gcctacctgg 480  
agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcacgg 546

<210> 143  
<211> 898  
<212> DNA  
<213> Homo sapiens

<400> 143  
atggccgtca tggcgcccc aaccctcgtc ctgtactct cgggggccct ggccctgacc 60

cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc ccggcccggc 120  
 cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac tgaccgagag 300  
 agcctgcgga tcgcgtccg ctactacaac cagagcgagg acggttctca caccatccag 360  
 aggatgtatg gctgcgacgt ggggcccggac gggcgcttcc tccgcgggta ccagcaggac 420  
 gcttacgacg gcaaggatta catgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctacatcac ccagcgcaag tgggagacgg cccatgaggc ggagcagtgg 540  
 agagcctacc tggagggcgg gtgcgtggag tggctccgca gatacctgga bgaacgggaa 600  
 ggagacgtcg cagcgacgg acgccccaa gacgatatg actcaccacg ctgtctctga 660  
 ccatgaggcc acctgaggt gctgggccct gagcttctac cctgcggaga tcacactgac 720  
 ctggcagcgg gatggggagg accagacca ggacacggag ctctggaga ccaggcctgc 780  
 aggggatggg acctccaga agtgggcgtc tgtgtgtgtg cttctggac aggagcagag 840  
 atacacctgc catgtgcagc atgagggtct gcccaagccc ctacacctga gatgggag 898

&lt;210&gt; 144

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 144

atggccgtca tggcgccccg aacctcgtc ctgctactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc ccggcccggc 120  
 cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac tgaccgagag 300  
 agcctgcgga tcgcgtccg ctactacaac cagagcgagg acggttctca caccatccag 360  
 aggatgtatg gctgcgacgt ggggcccggac gggcgcttcc tccgcgggta ccagcaggac 420  
 gcttacgacg gcaaggatta catgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctacatcac ccagcgcaag tgggagacgg cccatgaggc ggagcagtgg 540  
 agagcctacc tggagggcgg gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcgcccaag acgcatatga ctaccacgc tgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggga cttccagaa gtgggcgtct gtggtgtgtc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagccc tcacctgag atgggag 897

&lt;210&gt; 145

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 145

gctcccactc catgaggtat ttcttcacat ccgtgtcccg gcccgccgcg ggggagcccc 60  
 gcttcatcgc cgtgggctac gtggacgaca cgagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggcccg gattattggg 180  
 accggaacac acggaatgtg aaggccact cacagactga ccgagagagc ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggacg gttctcacac catccagagg atgtatggc 300  
 gcgacgtggg gccggacggg cgcttctcc gcgggtacca gcaggacgt tacgacggca 360  
 aggattacat gcgctgaac gaggacctgc gctcttgac cgcgccggac atggcggtc 420  
 agatcaccca gcgaagtgg gagacggccc atgaggcgga gcagtggaga gcctacctgg 480  
 agggccggtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

&lt;210&gt; 146

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 146

gctccactc catgaggtat ttctacacct cctgtcccgc gcccgccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggcccaact cacagactga ccgagagagc ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggacg gttctcacac catccagagg atgtatggct 300  
 gcgacgtggg gccggacggg cgcttcctcc gcgggtacca gcaggacgt tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcttgac gcggcggaac atggcggtc 420  
 agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagcagaga gctacctgg 480  
 agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacgg 546

&lt;210&gt; 147

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 147

atggccgtca tggcgccccg aacctcgtc ctgtactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttttaca cctccgtgtc ccggcccggc 120  
 cgcggggagc ccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgagagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac tgaccgagcg 300  
 aacctgggga cctgcgcg ctactacaac cagagcgagg acggttctca caccatccag 360  
 aggatgtatg gctgcgacgt ggggcgggac gggcgcttc tccgcggtta ccagcaggac 420  
 gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcttg gaccgcgcg 480  
 gacatggcgg ctcatcac ccagcgcaag tgggagacgg ccatgaggc ggagcagtgg 540  
 agagcctacc tggagggcgg gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcgcccaag acgcatatga ctaccacgc tgtctctgac 660  
 catgaggcca cctgagggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggga ccttcagaa gtggcgctct gtggtgtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

&lt;210&gt; 148

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 148

atggccgtca tggcgccccg aacctcgtc ctgtactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttttaca cctccgtgtc ccggcccggc 120  
 cgcggggagc ccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgagagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac tgaccgagcg 300  
 aacctgggga cctgcgcg ctactacaac cagagcgagg acggttctca caccatccag 360  
 aggatgtatg gctgcgacgt ggggcgggac gggcgcttc tccgcggtta ccagcagaac 420  
 gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcttg gaccgcgcg 480  
 gacatggcgg ctcatcac ccagcgcaag tgggagacgg ccatgaggc ggagcagtgg 540  
 agagcctacc tggagggcgg gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcgcccaag acgcatatga ctaccacgc tgtctctgac 660  
 catgaggcca cctgagggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggga ccttcagaa gtggcgctct gtggtgtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 149  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 149  
 atggccgtca tggcgccccg aaccctcgtc ctgtactct cgggggcccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tattttctaca cctccgtgtc ccggcccggc 120  
 cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac tcaccgagtg 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360  
 aggatgtatg gctgcgacgt ggggcccggac gggcgcttc tccgcgggta ccagcaggac 420  
 gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg gaccgcggcg 480  
 gacatggcgg ctcatatcac ccagcgcaag tgggagacgg cccatgaggc ggagcagtg 540  
 agagcctacc tggaggggcg gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcacgga cgcgcccaag acgcatatga ctcaccacgc tgtctctgac 660  
 catgaggcca cctgaggtg ctgggcccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggga cctccagaa gtggcgctct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 150  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 150  
 atggccgtca tggcgccccg aaccctcgtc ctgtactct cgggggcccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tattttctaca cctccgtgtc ccggcccggc 120  
 cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac tgaccgagcg 300  
 aacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360  
 aggatgtatg gctgcgacgt ggggcccggac gggcgcttc tccgcgggta ccagcaggac 420  
 gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg gaccgcggcg 480  
 gacatggcgg ctcatatcac ccagcgcaag tgggagacgg cccatgaggc ggagcagtg 540  
 agagcctacc tggaggggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcacgga cgcgcccaag acgcatatga ctcaccacgc tgtctctgac 660  
 catgaggcca cctgaggtg ctgggcccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggga cctccagaa gtggcgctct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 151  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 151  
 atggccgtca tggcgccccg aaccctcgtc ctgtactct cgggggcccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tattttctaca cctccgtgtc ccggcccggc 120  
 cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac tgaccgagag 300  
 aacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360  
 aggatgtatg gctgcgacgt ggggcccggac gggcgcttc tccgcgggta ccagcaggac 420  
 gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg gaccgcggcg 480

gacatggcgg ctcatgac ccagcgcaag tgggagacgg cccatgagc ggagcagtgg 540  
 agagcctacc tggagggcgg gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cggcccaag acgcatatga ctcaccacgc tgtctctgac 660  
 catgaggcca ccctgaggtg ctgggccctg agcttctacc ctgaggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggga ccttcagaa gtgggcgtct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 152  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 152  
 gctcccactc catgaggtat ttctacacct cgtgtcccc gcccgccgc ggggagcccc 60  
 gttcatcgc cgtgggttac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggccact cacagactca ccagtgagc ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagagg atgtatggct 300  
 gcgacgtggg gccggacggg cgcttctcc gcgggtacca gcgggacgct tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctctggac cgcggcggac atggcggctc 420  
 agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga gcctacctgg 480  
 agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacgg 546

<210> 153  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 153  
 atggccgtca tggcgcccc aacctcgtc ctgctactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc cgggccggc 120  
 cgcggggagc cccgcttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggaattatt gggacgggga gacacggaaa gtgaaggccc actcacagac tgaccgagcg 300  
 aacctgggga ccctgcggg ctactacaac cagagcgagg acggttctca caccatccag 360  
 aggatgtatg gctgcagctt ggggcccggc gggcgcttc tccgcgggta ccagcaggac 420  
 gcttacgacg gcaaggatta catgccttg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctcatgac ccagcgcaag tgggagacgg cccatgagc ggagcagtgg 540  
 agagcctacc tggagggcgg gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cggcccaag acgcatatga ctcaccacgc tgtctctgac 660  
 catgaggcca ccctgaggtg ctgggccctg agcttctacc ctgaggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggga ccttcagaa gtgggcgtct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 154  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 154  
 atggccgtca tggcgcccc aacctcgtc ctgctactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc cgggccggc 120  
 cgcggggagc cccgcttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac tgaccgagcg 300  
 aacctgggga ccttgccggt ctactacaac cagagcgagg acggttctca caccatccag 360  
 aggatgtatg gctgcgacgt ggggcccggac gggcgcttcc tccgcggtta ccagcaggac 420  
 gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcttg gaccgcgcg 480  
 gacatggcgg ctcatgacac ccagcgcaag tgggagacgg cccatgaggc ggagcagcag 540  
 agagcctacc tggggggcgg gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagcgtctgc agcgacgga cggcccaag acgcatatga ctaccacgc tgtctctgac 660  
 catgaggcca cctgagggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggga ccttcagaa gtgggcgtct gtgtgtgtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggggag 897

<210> 155  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 155  
 gctccactc catgaggtat ttctacacct ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggccact cacagactga ccgagcgaac ctggggaccc 240  
 tgcgcggtta ctacaaccag agcgaggacg gttctcacac catccagagg atgtatggct 300  
 gcgacgtggg gccggacggg cgcttctcc gcgggtacca gcaggacgt tacgacggca 360  
 aggtattacat cgcctgaac gaggacctgc gctcttgac gcggcgga atggcggtc 420  
 agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacgg 546

<210> 156  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 156  
 gctccactc catgaggtat ttctacacct ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggccact cacagactga ccgagcgaac ctggggaccc 240  
 tgcgcggtta ctacaaccag agcgaggacg gttctcacac catccagagg atgtatggct 300  
 gcgacgtggg gccggacggg cgcttctcc gcgggtacca gcaggacgt tacgacggca 360  
 aggtattacat cgcctgaaa gaggacctgc gctcttgac gcggcgga atggcggtc 420  
 agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga gcctacctgg 480  
 agggccggtg cgtggagtgg ctccgagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacgg 546

<210> 157  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 157  
 gctccactc catgaggtat ttctacacct ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggccact cacagactga ccgagcgaac ctggggaccc 240  
 tgcgcggtta ctacaaccag agcgaggacg gttctcacac catccagagg atgtatggct 300



gagacgtggg gccggacggg cgcttctcc gcgggtacca gcaggacgct tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac atggcggctc 420  
 agatcaccca gcgcaagtgg gagacggccc atgtggcgga gcagtggaga gcctacctgg 480  
 agggccgggtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 158  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 158  
 gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180  
 accggaacac acggaatgtg aaggcccagt cacagactga ccgagcgaac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagagg atgtatggct 300  
 gcgacgtggg gccggacggg cgcttctcc gcgggtacca gcaggacgct tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac atggcggctc 420  
 agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga gcctacctgg 480  
 agggccgggtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 159  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 159  
 gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180  
 accggaacac acggaatgtg aaggcccagt cacagactga ccgagcgaac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagagg atgtatggct 300  
 gcgacgtggg gccggacggg cgcttctcc gcgggtacca gcaggacgct tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcttggac cgcggcggac atggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc atgaggcgga gcagtggaga gcctacctgg 480  
 agggccgggtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 160  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 160  
 atggccgtca tggcgcccc aacctcgtc ctgctactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttttaca cctccgtgc cggcccgcc 120  
 cgcggggagc cccgcttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggtg 180  
 gacagcgacg ccgagagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac tgaccgagcg 300  
 aacctgggga ccctgcggg ctactacaac cagagcgagg acggttctca caccatccag 360  
 aggatgtatg gctgcgacgt ggggcgggac gggcgcttcc tccgcggtta ccagcaggac 420  
 gcttacgacg gcaaggatta catgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctcatcac ccagcgcaag tgggagacgg cccatgaggc ggagcagtgg 540  
 agagcctacc tggagggccg gtgcgtggag tggctccgca gatacttga gaacgggaag 600  
 gagacgtgc agcgacgga cggcccaag acgcatatga ctaccacgc tgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggga ccttcagaa gtgggcgtct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 161  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 161  
 gctccactc catgaggtat ttctcaat cctgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggccact cacagactga ccgagcgaac ctggggaccc 240  
 tgcgggcta ctacaaccag agcaggagcgt gttctcacac catccagagg atgtatggct 300  
 gcgacgtggg gccggacggg cgcttctcc gcgggtacca gcaggacgt tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcttgac gcggcgac atggcggtc 420  
 agatcaccca gcgaagtgg gagacggccc atgaggcgga gcagtggaga gcctacctgg 480  
 agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacgg 546

<210> 162  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 162  
 gctccactc catgaggtat ttctacact cctgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggccact cacagactga ccgagcgaac ctggggaccc 240  
 tgcgggcta ctacaaccag agcaggagcgt gtactcacac catccagagg atgtatggct 300  
 gcgacgtggg gccggacggg cgcttctcc gcgggtacca gcaggacgt tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcttgac gcggcgac atggcggtc 420  
 agatcaccca gcgaagtgg gagacggccc atgaggcgga gcagtggaga gcctacctgg 480  
 agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacgg 546

<210> 163  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 163  
 gctccactc catgaggtat ttctacact cctgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggccact cacagactga ccgagcgaac ctggggaccc 240  
 tgcgggcta ctacaaccag agcaggagcgt gttctcacac catccagagg atgtatggct 300  
 gcgacgtggg gccggacggg cgcttctcc gcgggtacca gcaggacgt tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcttgac gcggcgac atggcggtc 420  
 agatcaccca gcgaagtgg gagcgggccc gtgtggcgga gcagtggaga gcctacctgg 480  
 agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacgg 546

<210> 164

<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 164

```
atggccgtca tggcgccccg aacctcctc ctgctactct tgggggccct ggccctgacc 60
cagacctggg cgggctccca ctccatgagg tatttcacca catccgtgtc ccggcccggc 120
cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttt 180
gacagcgacg ccgcgagcca gaggatggag ccgcgggcac cgtggataga gcaggagggg 240
ccggagtatt gggacctgca gacacggaat gtgaaggccc agtcacagac tgaccgagcg 300
aacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360
atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccggcaggac 420
gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcttg gaccgcggcg 480
gacatggcgg ctcatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagttg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcacgga cgcgcccaag acgcatatga ctaccacgc tgtctctgac 660
catgaggcca cctgagggtg ctgggccctg agcttctacc ctgcggagat cacttgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780
ggggatggaa ccttcagaa gtgggcgtct gtgtgtgtgc cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggggag 897
```

<210> 165  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 165

```
atggccgtca tggcgccccg aacctcctc ctgctactct tgggggccct ggccctgacc 60
cagacctggg cgggctccca ctccatgagg tatttcacca catccgtgtc ccggcccggc 120
cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttt 180
gacagcgacg ccgcgagcca gaggatggag ccgcgggcac cgtggataga gcaggagggg 240
ccggagtatt gggacctgca gacacggaat gtgaaggccc agtcacagac tgaccgagcg 300
aacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360
atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccggcaggac 420
gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcttg gaccgcggcg 480
gacatggcgg ctcatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagttg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcacgga cgcgcccaag acgcatatga ctaccacgc tgtctctgac 660
catgaggcca cctgagggtg ctgggccctg agcttctacc ctgcggagat cacttgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780
ggggatggaa ccttcagaa gtgggcgtct gtgtgtgtgc cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggggag 897
```

<210> 166  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 166

```
atggccgtca tggcgccccg aacctcctc ctgctactct tgggggccct ggccctgacc 60
cagacctggg cgggctccca ctccatgagg tatttcacca catccgtgtc ccggcccggc 120
cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttt 180
gacagcgacg ccgcgagcca gaggatggag ccgcgggcac cgtggataga gcaggagggg 240
ccggagtatt gggacctgca gacacggaat gtgaaggccc agtcacagac tgaccgagcg 300
aacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360
atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccggcaggac 420
gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcttg gaccgcggcg 480
gacatggcgg ctcatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagttg 540
```

agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcgcccaag acgcatatga ctaccacgc tgtctctgac 660  
 catgaggcca ccttgagggtg ctgggccctg agcttctacc ctgaggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcgtct gtgtgggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggggag 897

<210> 167  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 167  
 gctccactc catgaggtat ttaccacat ccgtgtccc gcccggccgc ggggagcccc 60  
 gttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggtttgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcaccgt ggatagagca ggaggggccc gagtattggg 180  
 acctgcagac acggcatgtg aaggcccagt cacagactga ccgagcgaac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgccttgaac gaggacctgc gctcttgac cgcgccggac atggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 168  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 168  
 gctccactc catgaggtat ttaccacat ccgtgtccc gcccggccgc ggggagcccc 60  
 gttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggtttgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcaccgt ggatagagca ggaggggccc gagtattggg 180  
 acctgcagac acggaatgtg aaggcccagt cacagactga ccgagcgaac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgccttgaac gaggacctgc gctcttgac cgcgccggac atggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc atgaggcgga gcagcagaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 169  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 169  
 gctccactc catgaggtat ttaccacat ccgtgtccc gcccggccgc ggggagcccc 60  
 gttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggtttgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcaccgt ggatagagca ggaggggccc gagtattggg 180  
 acctgcagac acggaatgtg aaggcccagt cacagactga ccgagcgaac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgccttgaac gaggacctgc gctcttgac cgcgccggac atggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 170  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 170  
gctcccactc catgaggtat ttaccacat cgtgtcccg gcccgccgc ggggagcccc 60  
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggtttgac agcgacgccg 120  
cgagccagag gatggagccg cgggcaccgt ggatagagca ggaggggccc gagtattggg 180  
acctgcagac acggaatgtg aaggccagc cacagactga ccgagcgaac ctggggaccc 240  
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300  
gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
aggattacat cgccttgaac gaggacctgc gctcttgac cgcggcggac atggcggctc 420  
agatcaccca gcgcaagtgg gagcgggccc gtgtggcgga gcagttgaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
gcacgg 546

<210> 171  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 171  
atggccgtca tggcgcccc aaccctctc ctgtactct cgggggccct ggccctgacc 60  
cagacctggg cgggctccca ctccatgagg tatttctcca catcgtgtc ccggcccggc 120  
agtggagagc ccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
gacagcgacg ccgcgagcca gaggatggag ccgcgggccc cgtggataga gcaggagagg 240  
cctgagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac tgaccgagtg 300  
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
ataatgtatg gctgcgacgt ggggtcggac gggcgcttc tccgcggtta tgaacagcac 420  
gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcttg gaccgcggcg 480  
gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg ccggttgggc ggagcagttg 540  
agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
gagacgtgc agcgacgga ccccccaag acacatatga ccaccaccc catctctgac 660  
catgaggcca cctgagggtg ctgggacctg ggcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaga ggagcagaga 840  
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 172  
<211> 887  
<212> DNA  
<213> Homo sapiens

<400> 172  
atggccgtca tggcgcccc aaccctctc ctgtactct cgggggccct ggccctgacc 60  
cagacctggg cgggctccca ctccatgagg tatttctcca catcgtgtc ccggcccggc 120  
agtggagagc ccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
gacagcgacg ccgcgagcca gaggatggag ccgcgggccc cgtggataga gcaggagagg 240  
cctgagtatt gggaccagga gacacggaat gtgaaggccc actcacagac tgaccgagag 300  
aacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
ataatgtatg gctgcgacgt ggggtcggac gggcgcttc tccgcggtta tgaacagcac 420  
gcaaggatta catgcacctg aacgaggacc tgcgtcttg gaccgcggcg gacatggcgg 480  
ctcagatcac ccagcgcaag tgggaggcgg ccgctcgggc ggagcagttg agagcctacc 540  
tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag gagacgtgc 600  
agcgacgga ccccccaag acacatatga ccaccaccc catctctgac catgaggcca 660  
ccctgagggtg ctgggacctg ggcttctacc ctgcggagat cacactgacc tggcagcggg 720  
atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca ggggatggaa 780  
ccttccagaa gtgggcggct gtggtggtgc cttctggaga ggagcagaga tacacctgcc 840

atgtgcagca tgagggctctg cccaagcccc tcacctgag atgggag

887

&lt;210&gt; 173

&lt;211&gt; 767

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 173

ggctccact ccatgaggtat tttctccaca tccgtgtccc ggcccggcag tggagagccc 60  
cgcttcacgc cagtgggctac cgtggacgac acgcagttcg tgcggttcga cagcgacgcc 120  
gcgagccaga ggatggagcc gcgggcgccg tggatagagc aggaggggcc ggagtattgg 180  
gaccaggaga cacggaatgt gaaggccac tcacagactg accgagagaa cctggggacc 240  
ctgcgcggct actacaacca gagcggaggcc ggttctcaca ccatccagat aatgtatggc 300  
tgcgacgtgg ggtcggacgg gcgcttctc cgcggtatg aacagcacgc ctacgacggc 360  
aaggattaca tcgccctgaa cgaggacctg cgctcttggg ccgcgcgcca catggcggct 420  
cagatcacc acgcaagtg ggaggcgcc cgctggcgcc agcagttgag agcctacctg 480  
gagggcacgt gcgtggagtg gctccgcaga tacctggaga acgggaagga gacgtgcag 540  
cgacggacc ccccaagac acatatgacc caccaccca tctctgacca tgaggccacc 600  
ctgaggtgct gggccctggg cttctacctc gcggagatca cactgacctg gcagcgggat 660  
ggggaggacc agaccagga cacggagctc gtggagacca ggctgcagg ggatggaacc 720  
ttccagaagt gggcggctgt ggtggtgcct tctggagagg agcagag 767

&lt;210&gt; 174

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 174

gtcctcactc catgaggtat ttctccacat ccgtgtccc ggcccggcag ggagagcccc 60  
gcttcacgc agtgggctac gtggacgaca cgcagttcg tgcggttcga acgcagccg 120  
cgagccagag gatggagccg cgggcgccgt gtagagagca ggagaggcct gagtattggg 180  
accaggagac acggaatgtg aaggccact cacagactga ccgagagaac ctggggacc 240  
tgcgggcta ctacaaccag agcaggccg gttctcacac catccagata atgtatggct 300  
gcgacgtggg gtcggacggg cgcttctcc gcgggtatga acagcacgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctgc gctctggac cgcgccggac atggcggctc 420  
agatcaccca gcgcaagtgg gagggcgccc atgtggcgga gcagtggaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcacgg 546

&lt;210&gt; 175

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 175

gtcctcactc catgaggtat ttctccacat ccgtgtccc ggcccggcag ggagagcccc 60  
gcttcacgc agtgggctac gtggacgac cgcagttcg tgcggttcga acgcagccg 120  
cgagccagag gatggagccg cgggcgccgt gtagagagca ggagaggcct gagtattggg 180  
accaggagac acggaatgtg aaggccact cacagactga ccgagagaac ctggggacc 240  
tgcgggcta ctacaaccag agcaggccg gttctcacac catccagata atgtatggct 300  
gcgacgtggg gtcggacggg cgcttctcc gcgggtatga acagcacgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctgc gctctggac cgcgccggac atggcggctc 420  
agatcaccca gcgcaagtgg gagggcgccc atgtggcgga gcagtggaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcacgg 546

<210> 176  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 176  
 gctccactc catgaggtat ttctccacat cegtgtcccg gcccggcagt ggagagcccc 60  
 gtttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180  
 acgaggagac agggaaagtg aaggccact cacagactga ccgagagaaac ctggggaccc 240  
 tgcgggcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtatga acagcacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcttgac cgcggcggac atggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtcgggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 177  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 177  
 atggcgtca tggcgcccc aacctctc ctgctactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctctca ctccatgagg ttttctaca cctccgtgc cggccccgc 120  
 agtggagagc cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtcgggtc 180  
 gacagcgacg ccgcagcca gaggatggag ccgcgggcgc cgtggataga gcaggagagg 240  
 cctgagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac tgaccgagtg 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 ataatgtatg gctgcgacgt ggggtcggac gggcgctcc tccgcggtga tgaacagcac 420  
 gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgttggc ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccga gatactgga gaacgggaag 600  
 gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcggct gtggtggtgc cttctggaga ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 178  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 178  
 gctccactc catgaggtat ttctccacat cegtgtcccg gcccggcagt ggagagcccc 60  
 gtttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180  
 accaggagac acggaatgtg aaggccact cacagactga ccgagagaaac ctggggaccc 240  
 tgcgggcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtatga acagcacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcttgac cgcggcggac atggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 179  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 179

```

gctccactc catgaggtat ttctccacat cegtgtccc gcccggcagt ggagagcccc 60
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180
accaggagac acggaatgtg aagggccact cacagactga ccgagagAAC ctggggaccc 240
tgcggcgcta ctacaaccag agcgaggccg gttctcacac catccagata atgcatggct 300
gcgacgtggg gtcggacggg cgcttctcc ggggtatga acagcacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctgc gctctggac cgcggcggac atggcggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtcggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacggaccc cccaagaca catatgaccc accacccat ctctgacct gaggccaccc 600
tgagtgctg ggccttggc ttctacctg cggagatcac actgacctg cagcgggatg 660
gggaggacca gaccaggac acggagctg tggagaccag gcctgcagg gatggaacct 720
tcagaagtg ggcggctgtg gtggtgcctt ctggagagga gcagagatac acctgccatg 780
tgacgatga gggctgtccc aagccctca cctgagatg gg 822

```

&lt;210&gt; 180

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

```

<400> 180gctccactc catgaggtat ttctccacat cegtgtccc gcccggcagt ggagagcccc 60
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gattattggg 180
accaggagac acggaatgtg aagggccagt cacagactga ccgagtggac ctggggaccc 240
tgcggcgcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300
gcgacgtggg gtcggacggg cgcttctcc ggggtatga acagcacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctgc gctctggac cgcggcggac atggcggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gttggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 181

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 181

```

gctccactc catgaggtat ttctccacat cegtgtccc gcccggccc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180
accaggagac acggaatgtg aagggccact cacagactga ccgagagAAC ctggggaccc 240
tgcggcgcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300
gcgacgtggg gtcggacggg cgcttctcc ggggtatga acagcacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctgc gctctggac cgcggcggac atggcggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtcggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacggaccc cccaagaca catatgaccc accacccat ctctgacct gaggccaccc 600
tgagtgctg ggccttggc ttctacctg cggagatcac actgacctg cagcgggatg 660
gggaggacca gaccaggac acggagctg tggagaccag gcctgcagg gatggaacct 720
tcagaagtg ggcggctgtg gtggtgcctt ctggagagga gcagagatac acctgccatg 780
tgacgatga gggctgtccc aagccctca cctgagatg gg 822

```

&lt;210&gt; 182

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



&lt;400&gt; 182

```

atggccgtca tggcgccccg aacctctctc ctgtactct tgggggcct ggcctgacc 60
cagacctggg cgggctccca ctccatgagg tatttcacca catccgtgtc ccggccggc 120
cgcggggagc cccgttcat cggctgggc tacgtggacg acacgcagtt cgtgcggtt 180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagagg 240
cctgagtatt gggaccagga gacacggaat gtgaaggccc actcacagat tgaccgagt 300
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360
atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccagcaggac 420
gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcttg gaccgcggcg 480
gacatggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagttg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600
gagacgtgc agcgacgga ccccccaag acgcatatga ctaccacgc tgtctctgac 660
catgaggcca cctgagggtg ctgggcccctg agcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
ggggatggaa cctccagaa gtgggcgtct gtgtggtgc cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggtctc ccaagcccc tcacctgag atggggag 897

```

&lt;210&gt; 183

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 183

```

gtccccctc catgaggtat ttaccacat ccgtgtccc gcccggccg ggggagcccc 60
gcttcatgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180
accaggagac acggaagtg aaggccact cacagattga ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca gcaggacgc tacgacggca 360
aggattacat cgcctgaac gaggacctgc gctcttgac cgcgccggac atggcggtc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

```

&lt;210&gt; 184

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 184

```

gtccccctc catgaggtat ttaccacat ccgtgtccc gcccggccg ggggagcccc 60
gcttcatgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180
accaggagac acggaatgtg aaggccact cacagattga ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgt tacgacggca 360
aggattacat cgcctgaac gaggacctgc gctcttgac cgcgccggac atggcggtc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

```

&lt;210&gt; 185

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 185

```

atggccgtca tggcgccccg aacctctctc ctgtactct tgggggcct ggcctgacc 60

```

cagacctggg cgggctccca ctccatgagg tatttcacca catccgtgtc ccggcccggc 120  
 cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagagg 240  
 cctgagtatt gggaccagga gacacggaat gtgaaggccc actcacagat tgaccgagtg 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 ataattgtatg gctgcgacgt ggggtcggac gggcgcttcc tcccggggta ccggcaggac 420  
 gcttacgacg gcaaggatta catgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctacagatcac ccagcgcaag tgggaggcgg ccggtgtggc ggagcagttg 540  
 agagcctacc tggaggggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgacagga ccccccaag acgcatatga ctaccacgc tgtctctgac 660  
 catgaggcca cctgagggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcgtct gtgtgggtgc ctctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctc cccaagcccc tcacctgag atggggag 897

&lt;210&gt; 186

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 186

gctccactc catgaggtat ttaccacat ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180  
 accaggagac acggaatgtg aaggccact cacagattga ccgagtgga ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca gcaggacgcc tacgacggca 360  
 aggtattcat cgcctgaac gaggacctgc gctcttgga cgcggcgga atggcggtc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacgg 546

&lt;210&gt; 187

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 187

gctccactc catgaggtat ttaccacat ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180  
 accaggagac acggaatgtg aaggccact cacagattga ccgagtgga ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggtattcat cgcctgaac gaggacctgc gctcttgga cgcggcgga atggcggtc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacgg 546

&lt;210&gt; 188

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 188

gctccactc catgaggtat ttaccacat ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180

```

accaggagac acggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca gcaggacgcc tacgacggca 360
aggattacat cgccttgaac gaggacctgc gctcttgac cgcgcgggac atggcggtc 420
agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

```

<210> 189  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 189
gctcccactc catgaggtat ttaccacat ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcacgc cgtgggttac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cggcgcccg gtatagagca ggagggccg gattattggg 180
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca gcaggacgcc tacgacggca 360
aggattacat cgccttgaac gaggacctgc gctcttgac cgcgcgggac atggcggtc 420
agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

```

<210> 190<211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 190
gctcccactc catgaggtat ttaccacat ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcacgc cgtgggttac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cggcgcccg gtatagagca ggagggccg gattattggg 180
accaggagac acggaatgtg aaggccact cacagattga ccgagtggaac ctggggaccc 240
tgcgcggtc ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca gcaggacgcc tacgacggca 360
aggattacat cgccttgaac gaggacctgc gctcttgac cgcgcgggac atggcggtc 420
agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

```

<210> 191  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

```

<400> 191
atggcgtca tggcgcccc aacctctc ctgctactct tggggccct ggccctgacc 60
cagactggg cgggtccca ctcatgagg tatttctca catcgtgc ccggcccgcc 120
cgcggggag cccgctcat cgcgtggg tacgtggac acacgagtt cgtgcggtt 180
gacagcgac ccgagacca gaggatggag ccgcgggcg cgtggataga gcaggaggg 240
ccggagtatt gggaccagga gacacggaat gtgaaggccc actcacagac tgaccgagag 300
agcctcgga tcgctccg ctactacaac cagacgagg ccggttctca caccatccag 360
atgatgtat gctgcgact ggggcccggac gggcgctcc tccgcggtta ccagcaggac 420
gcctacgac gcaaggatta catgcctt aacgaggacc tgcgtctt gaccgcggcg 480
gacatggcg ctcagatcac ccagcgcaag tgggaggcg cccgtgtggc ggagcagttg 540
agagcctacc tggagggcac gtgcgtggag tggctccga gatacttga gaacgggaag 600

```

gagacgtgc agcgacgga cgcacccaag acgcataatga ctcaccacgc tgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780  
 ggggatggaa cctccagaa gtgggcgtct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggggag 897

<210> 192  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 192  
 atggccgtca tggcgccccg aacctctctc ctgctactct tgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttcttca catccgtgc cggcccgcc 120  
 cgcggggagc cccgcttcat cgccgtgggc tacgtggagc acacgcagtt cgtgcggtt 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccagga gacacggaat gtgaaggccc actcacagac tgaccgagag 300  
 agcctgcgga tcgctctccg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgtatg gctgcgagct ggggcccggc gggcgctcc tccgcggtta ccagcaggac 420  
 gcctacgacg gcaaggatta catcgcttg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg tccagatcac ccagcgcaag tgggaggcgg cccatgtggc ggagcagcag 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcacccaag acgcataatga ctcaccacgc tgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780  
 ggggatggaa cctccagaa gtgggcgtct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggggag 897

<210> 193  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 193  
 gctccactc catgaggtat ttcttccat ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttgac agcgacgccg 120  
 cgagccagag gatggagccg cggcgccgt gcatagagca ggaggggccc gagtattggg 180  
 accaggagac acggaatgtg aaggccact cacagactga ccagagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gccggacggg cgcttctcc gcgggtacca gcaggacgcc tacgacggca 360  
 aggattacat cgccttgaac gaggacctgc gctcttgac cgcggcggac atggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacgg 546

<210> 194  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 194  
 gctccactc catgaggtat ttcttccat ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttgac agcgacgccg 120  
 cgagccagag gatggagccg cggcgccgt gcatagagca ggaggggccc gagtattggg 180  
 accaggagac acggaatgtg aaggccact cacagactga ccagagagac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360

aggattacat cgcctgaac gaggacctgc gctcttggac cgcggcggac atggcggctc 420  
 agatcaccaa gcgcaagtgg gaggcggccc atgaggcgga gcagttgaga gcctacctgg 480  
 atggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 195  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 195  
 atggcgtca tggcgcccc aacctctc ctgctactct tgggggcctt ggccctgacc 60  
 cagacctggg cgggctcca ctccatgagg tatttcttca catccgtgtc ccggcccggc 120  
 cgcggggagc cccgcttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttt 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccagga gacagggaaa gtgaaggccc actcacagac tgaccgagag 300  
 agcctgcgga tcgcgtccg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgatg gctgcgacgt ggggcccggac gggcgctcc tccggggta ccagcaggac 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctcagatcac ccagcgcaag tgggagggcg cccgtgtggc ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcagga cgcgcccaag acgcatatga ctcaccacgc tgtctctgac 660  
 catgaggcca cctgagggtg ctgggcccgt agcttctacc ctgcggagat cacactgacc 720  
 ttgcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtggcgctct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 196  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 196  
 gctccactc catgaggtat ttcttcacat ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggggcg gagtattggg 180  
 accaggagac acggaatgtg aaggccact cacagactga ccgagagagc ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gccggacggg cgctctctcc cggggtacca gcaggacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcttggac cgcggcggac atggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 197  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 197  
 gctccactc catgaggtat ttcttcacat ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggggcg gagtattggg 180  
 accaggagac acggaatgtg aaggccact cacagactga ccgagagagc ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gccggacggg cgctctctcc cggggtacca gcaggacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcttggac cgcggcggac atggcggctc 420

agatcaccca ggcgaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacgg 546

<210> 198  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 198  
 atggccgtca tggcgccccg aacctcctc ctgctactct tgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttcacca catccgtgtc ccggcccggc 120  
 cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagat tgaccgagtg 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccagcaggac 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gacacctgga gaacgggaag 600  
 gagacgtgc agcgcacgga ccccccaag acgcatatga ctcaccacgc tgtctctgac 660  
 catgaggcca cctgagggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcgtct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctc cccaagcccc tcacctgag atgggag 897

<210> 199  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 199  
 atggccgtca tggcgccccg aacctcctc ctgctactct tgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttcacca catccgtgtc ccggcccggc 120  
 cgcgggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagat tgaccgagtg 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccagcaggac 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gataacctgga gaacgggaag 600  
 gagacgtgc agcgcacgga ccccccaag acgcatatga ctcaccacgc tgtctctgac 660  
 catgaggcca cctgagggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcgtct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctc cccaagcccc tcacctgag atgggag 897

<210> 200  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 200  
 gctccactc catgaggtat ttaccacat ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcatgc cgtgggtac gtggacgaca cgagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgcgt ggatagagca ggagggccg gagtattggg 180  
 accggaacac acggaatgtg aaggccact cacagattga ccgagtggac ctggggaccc 240

tgcgcggcta ctacaaccag agcaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca gcaggacgcc tacgacggca 360  
 aggattacat cgcttgaac gaggacctga gctcctggac cgcggcggac atggcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 201  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 201  
 gctccactc catgaggtat ttaccacat ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcatgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagcg ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggccact cacagattga ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca gcaggacgcc tacgacggca 360  
 aggattacat cgcttgaac gaggacctgc gctcttggac cgcggcggac atggcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 202  
 <211> 739  
 <212> DNA  
 <213> Homo sapiens

<400> 202  
 gctccactc catgaggtat ttaccacat ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcatgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
 cgagccagag gatggagccg cgggcgccgt ggatggagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggccact cacagattga ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca gcaggacgcc tacgacggca 360  
 aggattacat cgcttgaac gaggacctgc gctcttggac cgcggcggac atggcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacggaccc cccaagacg catatgactc accacgtgt ctctgacct gagggcacc 600  
 tgaggtgctg ggccctgagc ttctacctg cggagatcac actgacctg cagcgggatg 660  
 gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg gatggaacct 720  
 tccagaagtg ggcgtctgt 739

<210> 203  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 203  
 atggccatca tggcggccc aacctcgtc ctgtactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg ttttctaca cctccgtgtc ccggccgggc 120  
 cgcggggagc cccgcttcat cgccgtggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacggaaa gtgaaggccc agtcacagac tgaccgagt 300  
 gacctgggga cctgcggc ctactacaac cagagcgagg acggttctca caccatccag 360  
 aggatgtatg gctgcgacgt ggggcgggac gggcgcttc tccgaggta ccagcaggac 420  
 gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcttg gaccgggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc ggagcagtg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcgcccaag acacatatga ctcaccacgc tgtctctgac 660  
 catgaggcca cctgagggtg ctgggcccgt agcttctacc ctgaggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcgtct gtgtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

&lt;210&gt; 204

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 204

atggccgtca tggcgccccg aaccctcgtc ctgtactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgc ccggcccggc 120  
 cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac tgaccgagtg 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360  
 ataatgtatg gtcgcgacgt ggggtcggac gggcgcttc tccggggta ccggcaggac 420  
 gcttacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcttg gaccgggcg 480  
 gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc ggagcagtg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcgcccaag acgcatatga ctcaccacgc tgtctctgac 660  
 catgaggcca cctgagggtg ctgggcccgt agcttctacc ctgaggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcgtct gtgtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

&lt;210&gt; 205

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 205

gtcccactc catgaggtat ttctacacct ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gattattggg 180  
 accggaacac acggaatgtg aaggccagc cagagactga ccgagtggac ctggggaccc 240  
 tgcggggcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgt tacgacggca 360  
 aggtattcat cgcctgaac gaggacctgc gctcttgac cgcggcgac atggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc atgaggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacgg 546

&lt;210&gt; 206

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 206

gtcccactc catgaggtat ttctacacct ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggccc gattattggg 180  
 accggaacac acggaatgtg aaggccagc cagagactga ccgagtggac ctggggaccc 240



tgcgcggcta ctacaaccag agcaggagacg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgt tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcttgac cgcggcggac atggcggctc 420  
 agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 207  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 207  
 gctccactc catgaggtat ttctacacct ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaagtg aaggccactg cacagactga ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcaggagacg gttctcacac catccagagg atgtatggct 300  
 gcgacgtggg gccggacggg cgcttctcc gcgggtacca gcaggacgt tacgacggca 360  
 aggattacat ctccctgaac gaggacctgc gctcttgac cgcggcggac atggcggctc 420  
 agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 208  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 208  
 atggccgtca tggcggccc aacctctc ctgtactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttcttca catccgtgtc ccggcccggc 120  
 cgcggggagc cccgttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcagacca gaagatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccagga gacacggaat atgaaggccc actcacagac tgaccgagcg 300  
 aacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360  
 ataatgtatg gctgcgacgt ggggcccggac ggcgcttcc tccgcgggta ccggcaggac 420  
 gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctcatatcac caagcgcaag tgggagggcg tccatgcggc ggagcagcgg 540  
 agagtctacc tggagggcac gtgcgtggag tggtccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgacgga ccccccaag acatatga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcctg ggctctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tctggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtggcggct gtggtggtc cttctggaga ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggggag 897

<210> 209  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 209  
 gctccactc catgaggtat ttctcacat ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagaa gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accaggagac acggaatatg aaggccactg cacagactga ccgagcgaac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcaggagacg gttctcacac catccagata atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcttgac cgcgccggac atggcagctc 420  
 agatcaccaa gcgcaagtgg gaggcggtcc atgcggcgga gcagcggaga gcctacctgg 480  
 atggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacgg 546

<210> 210<211> 897

<212> DNA

<213> Homo sapiens

<400> 210

atggccgtca tggcgccccg aacctctctc ctgctactct cgggggccct ggccctgacc 60  
 cagacctggg cggtctccca ctccatgagg tattttctca catccgtgtc ccggcccggc 120  
 cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaagatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccagga gacacggaat atgaaggccc actcacagac tgaccgagcg 300  
 aacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca caccctccag 360  
 atgatgtatg gctgcgacgt ggggcgggac gggcgcttc tccgcgggta ccggcaggac 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctcatgcac caagcgcaag tgggaggcgg tccatgcggc ggagcagcgg 540  
 agagtctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac 660  
 catgaggcca ccctgaggtg ctgggccctg ggttctacc ctgcggagat cactctgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtggcggtc gtggtgtgc cttctggaga ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 211

<211> 546

<212> DNA

<213> Homo sapiens

<400> 211

gctccactc catgaggtat ttcttcacat ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgagttcgt gcggttcgac agcgacgcg 120  
 cgagccagaa gatggagccg cgggcgcgt ggatagagca ggaggggccg gattattggg 180  
 accaggagac acggaatatg aaggccact cacagactga ccgagcgaac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gccggacggg cgcttcctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcttgac cgcgccggac atggcagctc 420  
 agatcaccaa gcgcaagtgg gaggcggtcc atgcggcgga gcagcggaga gtctacctgg 480  
 agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacgg 546

<210> 212

<211> 897

<212> DNA

<213> Homo sapiens

<400> 212

atggccgtca tggcgccccg aacctctctc ctgctactct cgggggccct ggccctgacc 60  
 cagacctggg cggtctccca ctccatgagg tattttctca cctccgtgtc ccggcccggc 120  
 cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggacctgca gacacggaat gtgaaggccc actcacagac tgaccgagcg 300  
 aacctgggga ccctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360  
 aggatgtatg gctgcgacgt ggggcgggac gggcgcttc tccgcgggta ccagcaggac 420

gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctcatatcac ccagcgcaag tgggagacgg cccatgaggg ggagcagtgg 540  
 agagcctacc tggagggcgg gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcgcccaag acgcatatga ctcaccacgc tgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggga ccttcagaa gtgggcgtct gtgtgtgtgc cttctggaca ggagcagaga 840  
 tacactgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggggag 897

<210> 213  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 213  
 atggccgtca tggcgccccg aaccctcgtc ctgtactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc ccggcccggc 120  
 cgcggggagc cccgttcat cgcctgggc tacgtggagc acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac tgaccgagtg 300  
 gacctgggga cctgcgcgg ctactacaac cagacgagg acggttctca caccatccag 360  
 aggatgtatg gctgcgacgt ggggcccggac gggcgcttc tccggggta ccagcaggac 420  
 gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctcatatcac ccagcgcaag tgggagacgg cccatgaggg ggagcagtgg 540  
 agagcctacc tggagggcgg gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcgcccaag acgcatatga ctcaccacgc tgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggga ccttcagaa gtgggcgtct gtgtgtgtgc cttctggaca ggagcagaga 840  
 tacactgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggggag 897

<210> 214  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 214  
 atggccgtca tggcgccccg aaccctcgtc ctgtactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc ccggcccggc 120  
 cgcggggagc cccgttcat cgcctgggc tacgtggagc acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac tgaccgagtg 300  
 gacctgggga cctgcgcgg ctactacaac cagacgagg ccggttctca caccatccag 360  
 aggatgtatg gctgcgacgt ggggcccggac gggcgcttc tccggggta ccagcaggac 420  
 gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctcatatcac ccagcgcaag tgggagacgg cccatgaggg ggagcagtgg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcgcccaag acgcatatga ctcaccacgc tgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcgtct gtgtgtgtgc cttctggaca ggagcagaga 840  
 tacactgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggggag 897

<210> 215  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 215

```

gctccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accggaacac acggaatgtg aaggccact cacagactga ccgagtggac ctggggaccc 240
tgccggcta ctacaaccag agcgaggccg gttctcacac catccagagg atgtatggct 300
gcgacgtggg gccggacggg cgcttctcc gcgggtacca gcaggacgct tacgacggca 360
aggattacat gcacctgaac gaggacctgc gctcttggac cgcggcggac atggcggctc 420
agatcaccca gcgaagtgg gagacggccc atgaggcgga gcagtggaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 216

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 216

```

gctccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accggaacac acggaatgtg aaggccact cacagactga ccgagtggac ctggggaccc 240
tgccggcta ctacaaccag agcgaggacg gttctcacac catccagagg atgtatggct 300
gcgacgtggg gccggacggg cgcttctcc gcgggtacca gcaggacgct tacgacggca 360
aggattacat gcacctgaac gaggacctgc gctcttggac cgcggcggac atggcggctc 420
agatcaccca gcgaagtgg gagacggccc atgaggcgga gcagtggaga gcctacctgg 480
agggcggtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 217

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 217

```

atggccgtca tggcgcgccg aacctcgtc ctgtactct cgggggccct ggccctgacc 60
cagacctggg cgggctccca ctccatgagg tattttaca cctccgtgc ccggcccggc 120
cgcggggagc cccgttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac tgaccgagtg 300
gacctgggga cctgcgcgg ctactacaac cagacgagg ccggttctca caccatccag 360
atgatgtatg gctgcgacgt ggggtcggac gggcgcttc tccgcgggta ccggcaggac 420
gcctacgacg gcaaggatta catgccctg aaagaggacc tgcgtcttg gaccgcggcg 480
gacatggcag ctacagaccac caagcacaag tgggaggcgg cccatgtggc ggagcagtgg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600
gagacgtgc agcgacgga cgcgccaaa acgcatatga ctaccacgc tgtctctgac 660
catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacttgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
ggggatggaa cctccagaa gtgggtggct gtgtgtgtgc cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggttg ccaagcccc tcacctgag atggggag 897

```

&lt;210&gt; 218

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 218

```

atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggccct ggccctgacc 60
cagacctggg cgggctccca ctccatgagg tatttttaca cttccgtgtc cggccccggc 120
cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac tgaccgagt 300
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360
atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccggcaggac 420
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg gaccgcggcg 480
gacatggcag ctacagccac caagcacaag tgggaggcgg cccatgtggc ggagcagtgg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgctgc agcgacgga cgccccaaa acgcatatga ctcaccacgc tgtctctgac 660
catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
ggggatggaa ccttcagaa gtgggtggct gtggtggtgc cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atggggag 897

```

<210> 219  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

```

<400> 219
atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggccct ggccctgacc 60
cagacctggg cgggctccca ctccatgagg tatttttaca cttccatgtc cggccccggc 120
cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac tgaccgagt 300
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360
aggatgtatg gctgcgacgt ggggcccggac gggcgcttcc tccgcgggta ccaccagtac 420
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg gaccgcggcg 480
gacatggcag ctacagccac caagcacaag tgggaggcgg cccatgtggc ggagcagtgg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgctgc agcgacgga cgccccaaa acgcatatga ctcaccacgc tgtctctgac 660
catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
ggggatggaa ccttcagaa gtgggtggct gtggtggtgc cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atggggag 897

```

<210> 220  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

```

<400> 220
atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggccct ggccctgacc 60
cagacctggg cgggctccca ctccatgagg tatttttaca cttccgtgtc cggccccggc 120
cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac tgaccgagt 300
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360
atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccggcaggac 420
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg gaccgcggcg 480
gacatggcag ctacagccac caagcacaag tgggaggcgg cccatgtggc ggagcagtgg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgctgc agcgacgga cgccccaaa acgcatatga ctcaccacgc tgtctctgac 660
catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
ggggatggaa ccttcagaa gtgggtggct gtggtggtgc cttctggaca ggagcagaga 840

```

tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897

<210> 221  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 221  
 gctctcactc catgaggtat ttctacactt ccgtgtcccg gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccg gattattggg 180  
 accggaacac acggaatgtg aaggccact cacagactga ccgagtggac ctggggaccc 240  
 tgcgggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 agattacat cgcctgaaa gaggacctgc gctctggac cgcggcggac atggcagctc 420  
 agaccacaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacgg 546

<210> 222  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 222  
 gctccactc catgaggtat ttctacactt ccgtgtcccg gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccg gattattggg 180  
 accggaacac acggaatgtg aaggccact cacagattga ccgagtggac ctggggaccc 240  
 tgcgggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 agattacat cgcctgaaa gaggacctgc gctctggac cgcggcggac atggcagctc 420  
 agaccacaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacgg 546

<210> 223  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 223  
 gctccactc catgaggtat ttctacactt ccgtgtcccg gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccg gattattggg 180  
 accggaacac acggaatgtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 agattacat cgcctgaaa gaggacctgc gctctggac cgcggcggac atggcagctc 420  
 agaccacaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacgg 546

<210> 224  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 224

```

gctcccactc catgaggtat ttctacactt ccgtgtcccc gcccgccgc ggggagcccc 60
gcttcacgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accggaacac acggaatgtg aaggcccagt cacagactga ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtatga acagcacgcc tacgacggca 360
aggattacat gcacctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420
agaccaccaa gcacaagtgg gaggcgcccc atgtggcgga gcagtggaga gcttacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

```

&lt;210&gt; 225

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 225

```

gctcccactc catgaggtat ttctacactt ccgtgtcccc gcccgccgc ggggagcccc 60
gcttcacgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accggaacac acggaatgtg aaggcccagt cacagactga ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcagcacgcc tacgacggca 360
aggattacat gcacctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420
agaccaccaa gcacaagtgg gaggcgcccc atgtggcgga gcagtggaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

```

&lt;210&gt; 226

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 226

```

atggccgtca tggcgcccc aacctcgtc ctgctactct cgggggccct ggcctgacc 60
cagacctggg cgggctccca ctccatgagg ttttttaca cctccgtgc ccggcccgcc 120
cgcggggagc cccgttcat cgcgtgggc tacgtggacg acacgcagtt cgtcggttc 180
gacagcgacg ccgagacca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccgga cacaaggaa gtgaaggccc agtcacagac tgaccgagtg 300
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360
atgatgtatg gctgcgagct ggggtcggac gggcgcttc tccgcggtta ccggcaggac 420
gcctacgacg gcaaggatta catcgccctg aaagaggc gctcttg gaccgcggcg 480
gacatggcag ctacagacc caagcacaag tgggaggcgg cccatgtggc ggagcagctg 540
agagcctacc tggagggcac gtgcgtggag tggtccgca gatacctgga gaacgggaag 600
gagacgtgc agcgacgga cgccccana acgcatatga ctaccacgc tgtctctgac 660
catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
ggggatggaa ccttcagaa gtgggtggct gtggtggtgc cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggttg ccgaagccc tcacctgag atggggag 897

```

&lt;210&gt; 227

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 227

```

gctccactc catgaggtat ttctacactt cegtgtcccg gcccgccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accggaacac acggaatgtg aaggcccagt cacagactga ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgagccg gttctcacac catccagatg atgtatggct 300
gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc tacgacggca 360
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgccggac atggcagctc 420
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 228

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 228

```

gctccactc catgaggtat ttctacacct cegtgtcccg gcccgccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accggaacac acggaatgtg aaggcccagt cacagactga ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgagccg gttctcacac catccagatg atgtatggct 300
gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc tacgacggca 360
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgccggac atggcagctc 420
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 229

&lt;211&gt; 579

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 229

```

accctcgctc gtctactctc gggggccctg gccctgacct agacctgggc gggtccac 60
tccatgaggt atttctacac ttccgtgtcc cgcccgcc gcggggagcc cgccttcac 120
gccgtgggt acgtggagca cagcagttc gtgcggttc acagcgacgc cgcgagccag 180
aggatggagc cgccggccgc gtggatagag caggaggggc cggagtattg ggaccggaac 240
acacggaatg tgaaggcca gtcacagact gaccgagtgg acctggggac ctcgcggc 300
tactacaacc agagcgagcg cggttctcac accatccaga tgatgtatgg ctgcgacgtg 360
gggtcggacg ggcgcttct ccgcgggtac cggcaggacg cctacgacgg caaggattac 420
atgccctga aagaggacct gcgctcttg acccgggcgg acatggcagc tcagatcacc 480
aagcacaagt gggaggcgcc ccatgtggcg gagcagtgga gacacctt ggagggcacg 540
tgcgtggagt ggctccgacg atacctggag aacgggaag 579

```

&lt;210&gt; 230

&lt;211&gt; 866

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 230

```

atggccgtca tggcggccc aaccctcgtc ctgtactct cgggggccct ggccctgacc 60
cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc ccggcccgcc 120
cgcggggagc cccgcttcac cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccggga gacacggaat gtgaaggccc agtcacagac tgaccgagtg 300

```



gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgtatg gctgcgacgt ggggtcggac gggcgcttc tccgcgggta ccggcaggac 420  
 gcctacgacg gcaaggatta catgccctg aaagaggacc tgcgtcttg gaccgcggcg 480  
 gagatggcag ctgagggcac caagcacaag tgggaggcgg cccatgtggc ggagcagtgg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcggccaaa acgcatatga ctcaccacgc tgtctctgac 660  
 catgaagcca ccctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tctggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggtggct gtgggtgtgc ctctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgaggg 866

<210> 231  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 231  
 gctccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180  
 acgaggagac acggaatgtg aaggccact cactagactga ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgttctctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttggac cgcggcggac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 232  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 232  
 gctccactc catgaggtat ttctacacct ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180  
 accggaacac acggaatgtg aaggccact cactagactca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagagg atgtatggct 300  
 gcgacgtggg gtcggacggg cgttctctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttggac cgcggcggac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 233  
 <211> 615  
 <212> DNA  
 <213> Homo sapiens

<400> 233  
 ccgtcatggc gccccgaacc ctgctctgc tactctcggg ggccctggcc ctgaccaga 60  
 cctgggcggg ctccactcc atgaggtatt tctacacttc cgtgtcccg cccggccgcg 120  
 gggagcccc ctctatgcc gtgggtacg tggacgacac gcagttcgtg cgttcgaca 180  
 gcgacgccg gagccagagg atggagccgc gggcgccgtg gatagagcag gaggggccgg 240  
 agtattggga ccggaacaca cggaatgtga agggccagt acagactgac cgagtggacc 300  
 tggggacct gcgcggctac tacaaccaga gcgaggccgg ttctcacacc atccagatga 360

tgtatggctg cgacgtgggg tcggacgggc gcttctccg cgggtaccgg caggacgcct 420  
 acgacggcaa ggattacatc gccctgaaag aggacctgcg ctcttgacc gcggcggaca 480  
 tggcagctca gaccaccaag cacaagtggg aggcggccct tgtggcggag cagtggagag 540  
 cctacctgga gggcagctgc gtggagtggc tccgagata cctggagaac gggaaggaga 600  
 cgctgcagcg cacgg 615

<210> 234  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 234  
 atggcgtca tggcgcccg aaccctcgtc ctgtactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttctaca ctccgtgtc ccggcccgcc 120  
 cgcggggagc cccgttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgagagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac tgaccgagtg 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgtatg gctgcagct ggggtcggac gggcgcttc tccgcgggta ccggcaggtc 420  
 gcctacgacg gcaaggatta catgcctg aaagaggacc tgcgctcttg gaccgcggcg 480  
 gacatggcag ctacagaccac caagcacaag tgggaggcgg cccatgtggc ggagcagtg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccga gatactgga gaacgggaag 600  
 gagacgtgc agcgacgga ccccccaaa acgcatatga ctaccacgc tgtctctgac 660  
 catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacttgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatgga cttccagaa gtgggtggct gtggtgggc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggttg ccaagcccc tcacctgag atgggag 897

<210> 235  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 235  
 gctccactc catgaggtat ttctacactt ccgtgtccc gcccgccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagcgg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggcccagt cacagactga ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgttctctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat gccctgaaa gaggacctgc gctcttgga cgcggcggac atggcagctc 420  
 agaccacaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480  
 atggcacgtg cgtggagtgg ctccgagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacgg 546

<210> 236  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 236  
 gctccactc catgaggtat ttctacactt ccgtgtccc gcccgccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagcgg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggcccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cacttctcc gcgggtaccg gcaggacgcc tacgacggca 360

aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacgg 546

<210> 237  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 237  
 gctccactc catgaggtat ttctacactt ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt gcatagagca ggaggggccg gattattggg 180  
 accggaacac acggaatgtg aaggccagt cacagactga ccgagtggac ctggggaccc 240  
 tgcgggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacgg 546

<210> 238  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 238  
 atggccgtca tggcgcccc aaccctcgtc ctgctactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgc cggcccgcc 120  
 cgcggggagc cccgttcat gcgcgtggc tacgtggac acacgcagti cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccgaa cacacggaat gtgaaggccc agtcacagac tgaccgagt 300  
 gacctgggga cctgcacgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgtat gctgcagct ggggtcggac gggcgcttcc tccgcgggta ccggcaggac 420  
 gcctacgacg gcaaggatta catgccctg aaagaggacc tgcgctctg gaccgcggcg 480  
 gacatggcag ctacagacc caagcacaag tgggaggcgg ccatgtggc ggagcagtg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcacaaa acgcatatga ctaccacgc tgtcttgac 660  
 catgaagcca cctgaggtg ctggccctg agcttctacc ctgcggagat cacttgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggtggct gtggtgtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggttg ccaagccc tcacctgag atgggag 897

<210> 239  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens  
 <400> 239

gctccactc catgaggtat ttctacactt ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt gcatagagca ggaggggccg gattattggg 180  
 accggaacac acggaatgtg aaggccagt cacagactga ccgagtggac ctggggaccc 240  
 tgcgggcta ctacaaccag agcgaggccg gttctcacac catccagag atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acotggagaa cgggaaggag acgctgcagc 540  
gcacgg 546

<210> 240  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 240atggccgtca tggcgccccg aaccctctc ctgctactct cgggggccct ggccctgacc 60  
cagacctggg cgggctccca ctccatgagg tattttctaca ctcctgtgtc cgggcccggc 120  
cgcggggagc cccgttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
ccggagtatt gggaccgga caccggaat gtgaaggccc agtcacagac tgaccgagt 300  
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360  
aggatgtatg gctgcgacgt ggggtcggac tggcgcttc tccgcgggta ccaccgtac 420  
gcctacgacg gcaaggatta catgccttg aaagaggacc tgcgtcttg gaccgcggcg 480  
gacatggcag ctacagacc caagcacaag tgggaggcgg ccatgtggc ggagcagttg 540  
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
gagacgtgc agcgcacgga cgccccaaa acgcatatga ctcaccacgc tgtctctgac 660  
catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggggagga ccagaccag gacacggagc tctggagac caggcctgca 780  
ggggatggaa cttccagaa gtgggcgtct gtggtgtgc cttctggaca ggagcagaga 840  
tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897

<210> 241  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 241  
atggccgtca tggcgccccg aaccctctc ctgctactct tgggggccct ggccctgacc 60  
cagaccaggg cgggctccca ctccatgagg tattttctca catcgtgtc cgggcccggc 120  
cgcggggagc cccgttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttt 180  
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
ccggagtatt gggaccagga gacacggaat gtgaaggccc actcacagac tgaccgagt 300  
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
atgatgtatg gctgcgacgt ggggcgggac gggcgcttc tccgcgggta ccagcaggac 420  
gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcttg gaccgcggcg 480  
gacatggcgg ctacagacc ccagcgcaag tgggaggcgg cccgtgtggc ggagcagttg 540  
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
gagacgtgc agcgcacgga cgccccaaag acgcatatga ctcaccacgc tgtctctgac 660  
catgaggcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780  
ggggatggaa cttccagaa gtgggcgtct gtggtgtgc cttctggaca ggagcagaga 840  
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 242  
<211> 619  
<212> DNA  
<213> Homo sapiens

<400> 242  
atggccgtca tggcgccccg aaccctctc ctgctactct tgggggccct ggccctgacc 60  
cagacctggg cgggctccca ctccatgagg tattttctca catcgtgtc cgggcccggc 120  
cgcggggagc cccgttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttt 180  
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
ccggagtatt gggaccagga gacacggaat gtgaaggccc actcacagac tgaccgagt 300

gacctgggga ccttgcgagg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgtatg gctgcgacgt ggggcccggac gggcgctcc tccgaggga ccagcaggac 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgctcttg gaccgaggcg 480  
 gacatggcgg ctacagatcac ccagcgcaag tgggaggcgg ccggtgtggc ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgctgc agcgacgg 619

<210> 243  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

<400> 243  
 atggccgtca tggcgccccg aacctcctc ctgctactct tggggccct ggccctgacc 60  
 cagaccaggg cgggctccca ctccatgagg tattttctca catccgtgtc ccggcccggc 120  
 cgcgggggagc cccgcttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggtt 180  
 gacagcgacg ccgagagcca gaggatggag ccgaggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccagga gacacggaat gtgaaggccc actcacagac tgaccgagt 300  
 gacctggcga ccttgcgagg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgtatg gctgcgacgt ggggcccggac gggcgctcc tccgaggga ccagcaggac 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgctcttg gaccgaggcg 480  
 gacatggcgg ctacagatcac ccagcgcaag tgggaggcgg ccggtgtggc ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgctgc agcgacgg 619

<210> 244  
 <211> 547  
 <212> DNA  
 <213> Homo sapiens

<400> 244  
 ggctccact ccatgagga tttcttaca tccgtgtccc ggcccggccg cggggagccc 60  
 cgcttcatcg ccgtgggcta cgtggacgac acgcagttcg tgcggttga cagcgacgc 120  
 gcgagccaga ggatggagcc ggggcccggc tggatagagc aggagggtcc ggagtattgg 180  
 gacggggaga cagggaaagt gaaggccac tcacagactg accgagtggc cctggggacc 240  
 ctgcgggct actacaacca gagcgaggcc ggttctaca ccatccagat gatgtatggc 300  
 tgcgacgtgg ggcgggacgg gcgctcctc cgcgggtacc agcaggacgc ctacgacggc 360  
 aaggattaca tgccttgaa cgaggacctg cgctcttga ccgaggcgga catggcggt 420  
 cagatcacc agcgcaagt ggaggcgcc cgtgtggcg agcagttgag agcctacctg 480  
 gagggcacgt gcgtggagt gctccgcaga tacctggaga acgggaagga gacgtgcag 540  
 cgcacgg 547

<210> 245  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 245  
 gctccactc catgaggtat ttcttcacat ccgtgtccc gcccggccg ggggagccc 60  
 gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttgac agcgacgcc 120  
 cgagccagag gatggagccg cgggcccgt gcatagagca gggggggcgg gaggattggg 180  
 accaggagac acggaatgtg aaggccact cacaggctga ccagtgagc ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggcgg gttctcacac catccagatg atgtatggc 300  
 gcgacgtggg gccggacggg cgctcctcc ggggtacca gcaaggaccc tacgaaggca 360  
 aggattacat cgccttgaac gaggacctgc gctcttgac cgcggcggac atggcgctc 420  
 agatcaccca gcgcaagtgg gaggcgccc ggtgtggcga gcaattgaga gcctacctg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540

gcacgg

546

<210> 246  
<211> 545  
<212> DNA  
<213> Homo sapiens

<400> 246  
gctccactc catgaggtat ttcttcacat cctgtcccc gcccgccgc ggggagcccc 60  
gttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttgac agcgacgccg 120  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180  
accaggagac acggaatgtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
tgccggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
gcgacgtggg gccggacggg cgcctctcc gcgggtacca gcaggacgcc tacgacggca 360  
aggattacat cgccttgaac gaggacctgc gctcttggac cgcggcggac atggcggctc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcacg 545

<210> 247  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 247  
gctccactc catgaggtat ttcttcacat cctgtcccc gcccgccgc ggggagcccc 60  
gttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttgac agcgacgccg 120  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180  
accaggagac acggaatgtg aaggccact cacagattga ccgagtggac ctggggaccc 240  
tgccggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
gcgacgtggg gccggacggg cgcctctcc gcgggtacca gcaggacgcc tacgacggca 360  
aggattacat cgccttgaac gaggacctgc gctcttggac cgcggcggac atggcggctc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcacgg 546

<210> 248  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 248  
gctccactc catgaggtat ttcttcacat cctgtcccc gcccgccgc ggggagcccc 60  
gttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttgac agcgacgccg 120  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180  
accaggagac acggaatgtg aaggccact cacagactga ccgagtggac ctggggaccc 240  
tgccggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
gcgacgtggg gccggacggg cgcctctcc gcgggtacca gcaggacgcc tacgacggca 360  
aggattacat cgccttgaac gaggacctgc gctcttggac cgcggcggac atggcggctc 420  
agatcaccca gcgcaagtgg gaggcggcca gtgtggcgga gcagttgaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcacgg 546

<210> 249  
<211> 546  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 249

gctccactc catgaggtat ttcttcacat ccgtgtcccc gccgggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggtttgac agcgacgccg 120  
 cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccg gagtattggg 180  
 accaggagac acggaatgtg aaggccact cacagactga ccgagtggac ctggggaccc 240  
 tgcgcgcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gccggacggg cgcctcctcc gcgggtacca gcaggacgcc tacgacggca 360  
 aggtattacat cgccttgaac gaggacctgc gctcttggac cgcggcggac atggcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacggg 546

&lt;210&gt; 250

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 250

atggccgtca tgccgccccg aacctctctc ctgtactctt cgggggccct ggccctgacc 60  
 cagacctggg caggctccca ctccatgagg tattttctca catccgtgtc ccggcccgcc 120  
 cgcggggagc cccgcttcat cgcagtgggc tacgtggacg actcgcagtt cgtgcagttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggaggag 240  
 ccggagtatt gggacgagga gacacggaat gtgaaggccc actcacagac taaccgagcg 300  
 aacctgggga cctgcgagg ctactacaac cagagcgagg acggttctca caccatccag 360  
 ataatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccggcaggac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg gaccgcggcg 480  
 gacatggcgg ctcatatcac caagcgcaag tgggaggcgg cccgtcgggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggac gggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac 660  
 catgaggcca ctctgagggt ctgggccctg agcttctacc ctgcggagat cactctgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtggcggtgt gtggtgttac cttctggaaa ggagaagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccgagcccc tcacctgag atggggag 897

&lt;210&gt; 251

&lt;211&gt; 16

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 251

gccccgttc atcgcc 16

&lt;210&gt; 252

&lt;211&gt; 19

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 252

gaccaggaga cacggaata 19

&lt;210&gt; 253

&lt;211&gt; 17

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 253

gcggagcagc ggagagt 17

<210> 254  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 254  
agtctacctg gagggcc 17

<210> 255  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 255  
gtctacctgg agggccg 17

<210> 256  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 256  
aggtgctggg ccctgg 16

<210> 257  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 257  
ggtggtgcct tctggag 17

<210> 258  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 258  
caccctgaga tgggagct 18

<210> 259  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 259  
ccctgagatg ggagctg 17

<210> 260  
<211> 19  
<212> DNA  
<213> Homo sapiens



<400> 260  
ggacatggca gctcagatt

19

<210> 261  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 261  
cactccatga ggtatttctc

20

<210> 262  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 262  
ccggcccggc agtggga

16

<210> 263  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 263  
ttctcacacc atccagatg

19

<210> 264  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 264  
ccatgcggcg gagcagt

17

<210> 265  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 265  
catgcggcgg agcagtt

17

<210> 266  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 266  
atagagcagg agaggcct

18

<210> 267  
<211> 18

<212> DNA  
<213> Homo sapiens

<400> 267  
ctcacagact gaccgaga

18

<210> 268  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 268  
ctacaaccag agcgaggc

18

<210> 269  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 269  
gagtctacct ggagggct

18

<210> 270  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 270  
gtggacgaca cgcagtta

18

<210> 271  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 271  
tgctactctc gggggct

17

<210> 272  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 272  
ggcccaactca cagactc

17

<210> 273  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 273  
ggccggttct cacaccg

17

<210> 274  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 274  
ttctcacacc gtccagag

18

<210> 275  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 275  
cgacgtgggg tcggact

17

<210> 276  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 276  
gggaggcggc ccatgt

16

<210> 277  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 277  
ccatgtggcg gagcagtt

18

<210> 278  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 278  
gcctacctgg agggcac

17

<210> 279  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 279  
gagctgtggt cgctgct

17

<210> 280  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 280  
agccccgctt catcgca

17

<210> 281  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 281  
ccggagtatt gggacgg

17

<210> 282  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 282  
gacggggaga cacggaaa  
<210> 283  
<211> 16  
<212> DNA  
<213> Homo sapiens

18

<400> 283  
cctccgcggg taccac

16

<210> 284  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 284  
ccgcgggtac caccagt

17

<210> 285  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 285  
ggattacatc gcctgaaa

19

<210> 286  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 286  
ggacatggca gctcagac

18

<210> 287  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 287  
gggcacgtgc gtggagt

17

<210> 288  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 288  
gccactcac agactcat

18

<210> 289  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 289  
tgcgctcttg gaccgca

17

<210> 290  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 290  
attacatcgc cctgaaagaa

20

<210> 291  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 291  
ggggtcggac tggcga

16

<210> 292  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 292  
tcccggcccg gccgt

15

<210> 293  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 293  
catgtgcagc atgagggtt

19

<210> 294  
<211> 18  
<212> DNA

<213> Homo sapiens  
<400> 294  
gaccagaccc aggacaca

18

<210> 295  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 295  
ccatgtggcg gagcagt

17

<210> 296  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 296  
cggactggcg cttcctg

17

<210> 297  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 297  
ccaagcacia gtgggaga

18

<210> 298  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 298  
tgggagacgg cccatga

17

<210> 299  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 299  
ccatgaggcg gagcagt

17

<210> 300  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 300  
ccatgaggta tttctacacc

20

<210> 301  
<211> 18

<212> DNA  
<213> Homo sapiens

<400> 301  
caccgtccag aggatgtg 18

<210> 302  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 302  
gtggagacca ggcctga 17

<210> 303  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 303  
caccgtccag aggatgtt 18

<210> 304  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 304  
gaaggccac tcacagat 18

<210> 305  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 305  
catgtggcgg agcagca 17

<210> 306  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 306  
gggaggcggc ccatga 16

<210> 307  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 307  
catgaggcgg agcagca 17

<210> 308  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 308  
gcctacctgg agggcga

17

<210> 309  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 309  
acacctcca gatgatgtt

19

<210> 310  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 310  
gaggtgctgg gccctga

17

<210> 311  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 311  
ggaccgcggc ggacaa

16

<210> 312  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 312  
cacagactca ccgagtgg

18

<210> 313  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 313  
cgcggcggac atggcg

16

<210> 314  
<211> 18  
<212> DNA  
<213> Homo sapiens



<400> 314  
gtccggagta ttgggacg

18

<210> 315  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 315  
acggggagac acggaac

17

<210> 316  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 316  
cagtgggcta cgtggaca

18

<210> 317  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 317  
tgggagacgg cccatgt

17

<210> 318  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 318  
ccatgaggcg gagcagtt

18

<210> 319  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 319  
agctcagacc accaagca

18

<210> 320  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 320  
catgcggcgg agcagca

17

<210> 321  
<211> 18

<212> DNA  
<213> Homo sapiens

<400> 321  
cgtggataga gcaggaga 18

<210> 322  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 322  
gacggggaga cacggc 16

<210> 323  
<211> 16  
<212> DNA  
<213> Homo sapiens  
<400> 323  
ctgggcgggc tctcag 16

<210> 324  
<211> 16  
<212> DNA  
<213> Homo sapiens  
<400> 324  
tcgacagcga cgccgg 16

<210> 325  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 325  
cacgtccag aggatgtc 18

<210> 326  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 326  
cggaagtga aggcccag 18

<210> 327  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 327  
ggcccagtca cagactc 17

<210> 328  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 328  
ggctcagatc accaagca

18

<210> 329  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 329  
gcggagcagt tgagagc

17

<210> 330  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 330  
gggcacgtgc gtggag

16

<210> 331  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 331  
gtgggaggcg gcccc

15

<210> 332  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 332  
gggaggcggc ccgtgt

16

<210> 333  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 333  
ccgcgggtac cagcagt

17

<210> 334  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 334

ggagccccgc ttcattct.

17

<210> 335  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 335  
gaccaggaga cacggaaa

18

<210> 336  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 336  
attgggacga ggagacag

18

<210> 337  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 337  
gacgaggaga cagggaaa

18

<210> 338  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 338  
gaaggccac tcacagag

18

<210> 339  
<211> 20<212> DNA  
<213> Homo sapiens

<400> 339  
gaggtatttc ttcacatcca

20

<210> 340  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 340  
ttctccgcg ggtatgaa

18

<210> 341  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 341  
gagtattggg accggaac

18

<210> 342  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 342  
cggaatgtga aggcccag

18

<210> 343  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 343  
ggccggttet cacaccc

17

<210> 344  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 344  
ttctcacacc ctccagag

18

<210> 345  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 345  
ccggcccggc cgcga

15

<210> 346  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 346  
cgcggttacc accagtt

17

<210> 347  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 347  
cacagactga ccgagtgg

18

<210> 348  
<211> 19  
<212> DNA

<213> Homo sapiens

<400> 348

gttgagagcc tacctggat

19

<210> 349

<211> 17

<212> DNA

<213> Homo sapiens

<400> 349

catgaggcgg agcagct

17

<210> 350

<211> 18

<212> DNA

<213> Homo sapiens

<400> 350

ctgagagcct acctggat

18

<210> 351

<211> 18

<212> DNA

<213> Homo sapiens

<400> 351

tggatagagc aggagggt

18

<210> 352

<211> 18

<212> DNA

<213> Homo sapiens

<400> 352

cagagagcct acctggat

18

<210> 353

<211> 17

<212> DNA

<213> Homo sapiens

<400> 353

ggcctgggtc tccttgc

17

<210> 354

<211> 18

<212> DNA

<213> Homo sapiens

<400> 354

gagagcctac ctggatgc

18

<210> 355  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 355  
ggctgcgacg tggggt

16

<210> 356  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 356  
gggccggtgc gtggag

16

<210> 357  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 357  
ggccggtgcg tggagt

16

<210> 358  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 358  
gctcttgac cgcgga

17

<210> 359  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 359  
ggcccgccg cgga

15

<210> 360  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 360  
gggaggcgc ccgtga

16

<210> 361  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 361

cgtgaggcgg agcagca

17

<210> 362

<211> 17

<212> DNA

<213> Homo sapiens

<400> 362

ggcagctcag atcaccg

17

<210> 363

<211> 16

<212> DNA

<213> Homo sapiens

<400> 363

gccggacggg cgctta

16

<210> 364

<211> 17

<212> DNA

<213> Homo sapiens

<400> 364

gcagagagcc tacctgc

17

<210> 365

<211> 18

<212> DNA

<213> Homo sapiens

<400> 365

gccggagtat tgggacct

18

<210> 366

<211> 18

<212> DNA

<213> Homo sapiens

<400> 366

ggcagctcag atcaccag

18

<210> 367

<211> 15

<212> DNA

<213> Homo sapiens

<400> 367

ggaggcggcc cgtcg

15

<210> 368

<211> 18

<212> DNA



<213> Homo sapiens

<400> 368

acgaggagac agggaaag

18

<210> 369

<211> 16

<212> DNA

<213> Homo sapiens

<400> 369

cccagcccac cgtcca

16

<210> 370

<211> 17

<212> DNA

<213> Homo sapiens

<400> 370

ccgtgtggcg gagcagt

17

<210> 371

<211> 17

<212> DNA

<213> Homo sapiens

<400> 371

gcggagcagt ggagagc

17

<210> 372

<211> 19

<212> DNA

<213> Homo sapiens

<400> 372

ggcaaggatt acatgcct

19

<210> 373

<211> 17

<212> DNA

<213> Homo sapiens

<400> 373

cgtgtggcgg agcagtt

17

<210> 374

<211> 18

<212> DNA

<213> Homo sapiens

<400> 374

ctccactcc atgagtg

18

<210> 375  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 375  
cgctccgcta ctacaacg 18

<210> 376  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 376  
ctgcggatcg cgctcc 16

<210> 377  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 377  
gcggagcagc agagagc 17

<210> 378  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 378  
atcttcccag cccaccg 17

<210> 379  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 379  
ctgggttct accctgca 18

<210> 380  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 380  
cgcggtacc accagtat 18

<210> 381  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 381

agacgctgca gcgcact

17

<210> 382

<211> 17

<212> DNA

<213> Homo sapiens

<400> 382

ggcggctcag atcaccc

17

<210> 383

<211> 18

<212> DNA

<213> Homo sapiens

<400> 383

gggaaagtga aggcccag

18

<210> 384

<211> 17

<212> DNA

<213> Homo sapiens

<400> 384

cctgggcagg ctcccaa

17

<210> 385

<211> 17

<212> DNA

<213> Homo sapiens

<400> 385

gggcacgtgc gtggact

17

<210> 386

<211> 17

<212> DNA

<213> Homo sapiens

<400> 386

gacgggcgct tctcca

17

<210> 387

<211> 16

<212> DNA

<213> Homo sapiens

<400> 387

ggaccgcggc ggacag

16

<210> 388

<211> 18

<212> DNA

<213> Homo sapiens

<400> 388

cggagtattg ggacgagc

18

<210> 389

<211> 18

<212> DNA

<213> Homo sapiens

<400> 389

acagactgac cgagagag

18

<210> 390

<211> 17

<212> DNA

<213> Homo sapiens

<400> 390

ccagaggatg gagccgt

17

<210> 391

<211> 18

<212> DNA

<213> Homo sapiens

<400> 391

gagccagagg atggagct

18

<210> 392

<211> 17

<212> DNA

<213> Homo sapiens

<400> 392

gctccactc catgagc

17

<210> 393

<211> 16

<212> DNA

<213> Homo sapiens

<400> 393

gcctgcaggg gatggg

16

<210> 394

<211> 17

<212> DNA

<213> Homo sapiens

<400> 394

ccagcgcaag tgggaga

17

<210> 395  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 395  
ccgcgggtac cagcaga

17

<210> 396  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 396  
gcctacctgg aggcct

17

<210> 397  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 397  
tccgcgggta ccagcg

16

<210> 398  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 398  
ttcctccgcg ggtacca

17

<210> 399  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 399  
ggtaccagca ggacgt

17

<210> 400  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 400  
cgcagttcgt gcggttg

17

<210> 401  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 401

ccagagcgag gacggta

17

<210> 402

<211> 19

<212> DNA

<213> Homo sapiens

<400> 402

cagatgatgt atggctgcc

19

<210> 403

<211> 16

<212> DNA

<213> Homo sapiens

<400> 403

gatggagccg cgggca

16

<210> 404

<211> 17

<212> DNA

<213> Homo sapiens

<400> 404

ggacctgcag acacggc

17

<210> 405

<211> 16

<212> DNA

<213> Homo sapiens

<400> 405

gagacgctgc agcgcg

16

<210> 406

<211> 16

<212> DNA

<213> Homo sapiens

<400> 406

tgggaggcgg cccgtt

16

<210> 407

<211> 15

<212> DNA

<213> Homo sapiens

<400> 407

gggaggcggc ccgtc

15

<210> 408

<211> 17

<212> DNA

<213> Homo sapiens

<400> 408

gggctacgtg gacgacg

17

<210> 409

<211> 19

<212> DNA

<213> Homo sapiens

<400> 409

cacaccatcc agataatgc

19

<210> 410

<211> 18

<212> DNA

<213> Homo sapiens

<400> 410

gtgcagcatg agggctctc

18

<210> 411

<211> 17

<212> DNA

<213> Homo sapiens

<400> 411

ggtaccggca ggacgct

17

<210> 412

<211> 20<212> DNA

<213> Homo sapiens

<400> 412

ccactccatg aggtatttca

20

<210> 413

<211> 18

<212> DNA

<213> Homo sapiens

<400> 413

gacacggaat gtgaaggg

18

<210> 414

<211> 20<212> DNA

<213> Homo sapiens

<400> 414

cctagttctc tttggagcta

20

<210> 415

<211> 15

<212> DNA

<213> Homo sapiens

<400> 415  
ggccggacgg gcgcc

15

<210> 416  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 416  
gcctacctgg atggcac

17

<210> 417  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 417  
tggcacgtgc gtggagt

17

<210> 418  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 418  
gaccaggaga cagggaaa

18

<210> 419  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 419  
gcacggaccc cccag

16

<210> 420  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 420  
acgaggacct gagctcc

17

<210> 421  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 421  
gcgccgtgga tagagcg

17

<210> 422  
<211> 16



<212> DNA  
<213> Homo sapiens

<400> 422  
gcgggcgccg tggatg

16

<210> 423  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 423  
cccatcgtg ggcattc

17

<210> 424  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 424  
ctgcagcgca cggacg

16

<210> 425  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 425  
ggacgcccc aagacg

16

<210> 426  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 426  
ctctttggag ctgtgatcg

19

<210> 427  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 427  
gacggcaagg attacatct

19

<210> 428  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 428  
gtctacctgg agggcac

17

<210> 429  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 429  
cggagagcct acctggat 18

<210> 430  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 430  
ggacggttct cacaccc 17

<210> 431  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 431  
gggcgagtgc gtggagt 17

<210> 432  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 432  
ggagtggctc cgcagac 17

<210> 433  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 433  
gaaccttcca gaagtgggt 19

<210> 434  
<211> 20<212> DNA  
<213> Homo sapiens

<400> 434  
ccatgaggta tttctacact 20

<210> 435  
<211> 20<212> DNA  
<213> Homo sapiens

<400> 435  
gaggtatttc tacacctcca 20

<210> 436  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 436  
cgcggtacc ggcagc

16

<210> 437  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 437  
catgtggcgg agcagct

17

<210> 438  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 438  
gccggagtat tgggacg

17

<210> 439  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 439  
agtgggaggc ggcct

16

<210> 440  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 440  
gcgggtaccg gcaggt

16

<210> 441  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 441  
tggagagcct acctggat

18

<210> 442  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 442

tggggtcgga cgggca

16

<210> 443  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 443  
gcagatacct ggagaacc

18

<210> 444  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 444  
gacctgggga ccctgca

17

<210> 445  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 445  
gttctcacac catccagag

19

<210> 446  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 446  
ggccctgacc cagacca

17

<210> 447  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 447  
cctcctcctg ctactctt

18

<210> 448  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 448  
ctcctccgcg ggtacca

17

<210> 449  
<211> 17  
<212> DNA

<213> Homo sapiens

<400> 449

gaccgagtgg acctggc

17

<210> 450

<211> 17

<212> DNA

<213> Homo sapiens

<400> 450

gaaggccac tcacagg

17

<210> 451

<211> 18

<212> DNA

<213> Homo sapiens

<400> 451

cacagattga ccgagtgg

18

<210> 452

<211> 17

<212> DNA

<213> Homo sapiens

<400> 452

caagtgggag gcggcca

17

<210> 453

<211> 18

<212> DNA

<213> Homo sapiens

<400> 453

cttcacatcc gtgtcccc

18

<210> 454

<211> 18

<212> DNA

<213> Homo sapiens

<400> 454

cagcccacca tccccatt

18

<210> 455

<211> 18

<212> DNA

<213> Homo sapiens

<400> 455

cttcatcgcc gtgggcta

18

<210> 456  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 456  
acacggaata tgaaggccc

19

<210> 457  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 457  
gcggagagtc tacctgg

17

<210> 458  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 458  
ggagggccgg tgcgtg

16

<210> 459  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 459  
ggagggccgg tgcgtg

16

<210> 460  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 460  
gggccctggg cttctac

17

<210> 461  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 461  
gtggtggtgc cttctgg

17

<210> 462  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 462

ccttctggag aggagcag

18

<210> 463  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 463  
agctcagatt accaagcgc

19

<210> 464  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 464  
ggtatttctc cacatccgt

19

<210> 465  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 465  
ggcagtggag agcccc

16

<210> 466  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 466  
catccagatg atgtatggc

19

<210> 467  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 467  
cggagcagtt gagagcc

17

<210> 468  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 468  
cggagcagtt gagagcct

18

<210> 469  
<211> 18  
<212> DNA

<213> Homo sapiens

<400> 469

ggagaggcct gagtattg

18

<210> 470

<211> 18

<212> DNA

<213> Homo sapiens

<400> 470

ctgaccgaga gaacctgg

18

<210> 471

<211> 17

<212> DNA

<213> Homo sapiens

<400> 471

gagcgaggcc ggttctc

17

<210> 472

<211> 16

<212> DNA

<213> Homo sapiens

<400> 472

ggagggctgg tgcgtg

16

<210> 473

<211> 18

<212> DNA

<213> Homo sapiens

<400> 473

cacgcagtta gtgcggtt

18

<210> 474

<211> 16

<212> DNA

<213> Homo sapiens

<400> 474

tcgggggctc tggccc

16

<210> 475

<211> 18

<212> DNA

<213> Homo sapiens

<400> 475

gacacggaaa gtgaaggc

18



<210> 476  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 476  
tcacagactc accgagtg 18

<210> 477  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 477  
ctcacaccgt ccagagg 17

<210> 478  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 478  
ccgtccagag gatgtatg 18

<210> 479  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 479  
ggtcggactg gcgcttc 17

<210> 480  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 480  
ggcccatgtg gcggag 16

<210> 481  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 481  
ggagggcacg tgcgtg 16

<210> 482  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 482

catgagggtt tgcccaag

18

<210> 483

<211> 18

<212> DNA

<213> Homo sapiens

<400> 483

cttcacgcga gtgggcta

18

<210> 484

<211> 17

<212> DNA

<213> Homo sapiens

<400> 484

ttgggacggg gagacac

17

<210> 485

<211> 17

<212> DNA

<213> Homo sapiens

<400> 485

gggtaccacc agtacgc

17

<210> 486

<211> 18

<212> DNA

<213> Homo sapiens

<400> 486

taccaccagt acgcctac

18

<210> 487

<211> 18

<212> DNA

<213> Homo sapiens

<400> 487

cgccctgaaa gaggacct

18

<210> 488

<211> 18

<212> DNA

<213> Homo sapiens

<400> 488

cagctcagac caccaagc

18

<210> 489

<211> 16

<212> DNA

<213> Homo sapiens

<400> 489

cgtggagtgg ctccgc

16

<210> 490

<211> 19

<212> DNA

<213> Homo sapiens

<400> 490

acagactcat cgagtggac

19

<210> 491

<211> 17

<212> DNA

<213> Homo sapiens

<400> 491

tggaccgcag cggacat

17

<210> 492

<211> 18

<212> DNA

<213> Homo sapiens

<400> 492

cctgaaagaa gacctgcg

18

<210> 493

<211> 17

<212> DNA

<213> Homo sapiens

<400> 493

gactggcgat tcctccg

17

<210> 494

<211> 15

<212> DNA

<213> Homo sapiens

<400> 494

cccggccgtg gggag

15

<210> 495

<211> 18

<212> DNA

<213> Homo sapiens

<400> 495

ccaggacaca gagctcgt

18

<210> 496  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 496  
cgcttcctgc gcgggt

16

<210> 497  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 497  
agtgggagac ggcccat

17

<210> 498  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 498  
ggcccatgag gcggag

16

<210> 499  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 499  
cggagcagtg gagagcc

17

<210> 500  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 500  
tctcacaccg tccagatg

18

<210> 501  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 501  
tttctacacc tccgtgtcc

19

<210> 502  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 502

gaggatgtgt ggctgcg

17

<210> 503

<211> 17

<212> DNA

<213> Homo sapiens

<400> 503

caggcctgaa ggggatg

17

<210> 504

<211> 18

<212> DNA

<213> Homo sapiens

<400> 504

ccgtccagag gatgtttg

18

<210> 505

<211> 18

<212> DNA

<213> Homo sapiens

<400> 505

agaggatgtt tggtgcg

18

<210> 506

<211> 19

<212> DNA

<213> Homo sapiens

<400> 506

actcacagat tgaccgagt

19

<210> 507

<211> 17

<212> DNA

<213> Homo sapiens

<400> 507

ggagcagcag agagcct

17

<210> 508

<211> 16

<212> DNA

<213> Homo sapiens

<400> 508

ggagggcgag tgcgtg

16

<210> 509

<211> 17

<212> DNA

<213> Homo sapiens

<400> 509

gtcatggctc cccgaac

17

<210> 510

<211> 19

<212> DNA

<213> Homo sapiens

<400> 510

agatgatgtt tggctgcga

19

<210> 511

<211> 17

<212> DNA

<213> Homo sapiens

<400> 511

gggccctgag cttctac

17

<210> 512

<211> 17

<212> DNA

<213> Homo sapiens

<400> 512

ggcggacaag gcagctc

17

<210> 513

<211> 16

<212> DNA

<213> Homo sapiens

<400> 513

ccgagtggac ctgggg

16

<210> 514

<211> 18

<212> DNA

<213> Homo sapiens

<400> 514

ggacatggcg gctcagat

18

<210> 515

<211> 18

<212> DNA

<213> Homo sapiens

<400> 515

tattgggacg gggagaca

18

<210> 516  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 516  
gacacggaac gtgaaggc

18

<210> 517  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 517  
tacgtggaca acacgcag

18

<210> 518  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 518  
ccaccaagca caagtggg

18

<210> 519  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 519  
agcaggagag tccggag

17

<210> 520  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 520  
gagacacggc aagtgaag

18

<210> 521  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 521  
gggctctcag tccatgag

18

<210> 522  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 522

cgacgccggg agccag

16

<210> 523  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 523  
gaggatgtct ggctgcg

17

<210> 524  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 524  
gaaggcccag tcacagac

18

<210> 525  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 525  
tcaccaagca caagtggg

18

<210> 526  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 526  
agttgagagc ctacctgg

18

<210> 527  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 527  
tgcgtggagt ggctccg

17

<210> 528  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 528  
gcggcccgtg tggcg

15

<210> 529  
<211> 16  
<212> DNA



<213> Homo sapiens

<400> 529

ggcccgtgtg gcggag

16

<210> 530

<211> 18

<212> DNA

<213> Homo sapiens

<400> 530

taccagcagt acgcctac

18

<210> 531

<211> 18

<212> DNA

<213> Homo sapiens

<400> 531

cgcttcatct cagtgggc

18

<210> 532

<211> 18

<212> DNA

<213> Homo sapiens

<400> 532

gaggagacag ggaaagtg

18

<210> 533

<211> 18

<212> DNA

<213> Homo sapiens

<400> 533

gacagggaaa gtgaaggc

18

<210> 534

<211> 18

<212> DNA

<213> Homo sapiens

<400> 534

actcacagag tcaccgag

18

<210> 535

<211> 18

<212> DNA

<213> Homo sapiens

<400> 535

ttcacatcca tgtcccgg

18

<210> 536  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 536  
cgggtatgaa cagcacgc 18

<210> 537  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 537  
ggaccggaac acacggaa 18

<210> 538  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 538  
tctcacaccc tccagatg 18

<210> 539  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 539  
ctcacaccct ccagagg 17

<210> 540  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 540  
ccctccagag gatgtatg 18

<210> 541  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 541  
ggccgcgagg agccc 15

<210> 542  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 542

ccaccagttc gcctacg

17

<210> 543  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 543  
ctacctggat ggcacgtg

18

<210> 544  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 544  
ggagcagctg agagcct

17

<210> 545  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 545  
caggagggtc cggagta

17

<210> 546  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 546  
ctggagaacc ggaaggag

18

<210> 547  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 547  
cctggatgcc acgtgcg

17

<210> 548  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 548  
cgtgggggtcg gacggg

16

<210> 549  
<211> 17  
<212> DNA

<213> Homo sapiens

<400> 549  
accgcggcag acatggc

17

<210> 550  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 550  
ccgcgggaag ccccg

15

<210> 551  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 551  
gcggcccgtag aggcg

15

<210> 552  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 552  
ggcccgtag gcggag

16

<210> 553  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 553  
cagatcaccg agcgcaag

18

<210> 554  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 554  
gggcgcttac tccgcg

16

<210> 555  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 555  
ctacctgcag ggccgg

16

<210> 556  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 556  
attgggacct gcagacac 18

<210> 557  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 557  
agatcaccag gcgcaagt 18

<210> 558  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 558  
gcccgctcggg cggag 15

<210> 559  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 559  
acagggaaag tgaaggcc 18

<210> 560  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 560  
gaagtgggca gctgtggt 18

<210> 561  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 561  
gtggagagcc tacctgg 17

<210> 562  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 562

tacatgcct tgaacgagg

19

<210> 563  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 563  
ccatgaggtg tttctccac

19

<210> 564  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 564  
tactacaacg agagcgagg

19

<210> 565  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 565  
tcgcgctccg ctactac

17

<210> 566  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 566  
gcagagagcc tacctgg

17

<210> 567  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 567  
ctaccctgca gagatcac

18

<210> 568  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 568  
ccaccagtat gcctacga

18

<210> 569  
<211> 18  
<212> DNA

<213> Homo sapiens

<400> 569

cagatcaccc agcgcaag

18

<210> 570

<211> 18

<212> DNA

<213> Homo sapiens

<400> 570

aggctcccaa tccatgag

18

<210> 571

<211> 18

<212> DNA

<213> Homo sapiens

<400> 571

tgtggtggta ccttctgg

18

<210> 572

<211> 17

<212> DNA

<213> Homo sapiens

<400> 572

cggagcagtg gagagtc

17

<210> 573

<211> 16

<212> DNA

<213> Homo sapiens

<400> 573

cgtggactgg ctccgc

16

<210> 574

<211> 17

<212> DNA

<213> Homo sapiens

<400> 574

cttctccac ggggtacc

17

<210> 575

<211> 16

<212> DNA

<213> Homo sapiens

<400> 575

ggcggacagg gcggt

16

<210> 576  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 576  
tcacagactc accgagag 18

<210> 577  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 577  
gggacgagca gacaggg 17

<210> 578  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 578  
ccgagagagc ctgcgg 16

<210> 579  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 579  
actcacagat tgaccgaga 19

<210> 580  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 580  
ggagccgtgg gcgcc 15

<210> 581  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 581  
gatggagctg cgggcg 16

<210> 582  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 582



ctccatgagc tatttctcc

19

<210> 583  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 583  
ggggatggga ccttcca

17

<210> 584  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 584  
ccttctggac aggagcag

18

<210> 585  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 585  
taccagcaga acgcttacg

19

<210> 586  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 586  
ggagggcctg tgcgtg

16

<210> 587  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 587  
gtaccagcgg gacgctt

17

<210> 588  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 588  
cgggtaccag caggacg

17

<210> 589  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 589  
caggacgctt acgacgg

17

<210> 590  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 590  
gtgcggttgg acagcga

17

<210> 591  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 591  
gaggacggta ctcacacc

18

<210> 592  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 592  
tggctgccac gtgggg

16

<210> 593  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 593  
ccgcgggcac cgtgg

15

<210> 594  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 594  
cagacacggc atgtgaag

18

<210> 595  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 595  
ggcccgttgg gcggag

16

<210> 596

<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 596  
ggccccgtcgg gcgga 15

<210> 597  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 597  
tggacgacgc gcagttc 17

<210> 598  
<211> 19  
<212> DNA  
<213> Homo sapiens  
<400> 598  
cagataatgc atggtgcg 19

<210> 599  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 599  
gagggtctcc ccaagcc 17

<210> 600  
<211> 19  
<212> DNA  
<213> Homo sapiens  
<400> 600  
aggtatttca ccacatccg 19

<210> 601  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 601  
atgtgaaggg ccactcac 18

<210> 602  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 602  
cacggagctt gtggagac 18

<210> 603  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 603  
cgggcgctc ctccg

15

<210> 604  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 604  
ggatggcacg tgcgtgg

17

<210> 605  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 605  
ccccccagg acgcat

16

<210> 606  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 606  
ctgagctcct ggaccgc

17

<210> 607  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 607  
gatagagcgg gaggggc

17

<210> 608  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 608  
ccgtggatgg agcagga

17

<210> 609  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 609  
cacggacgcc cccaag

16

<210> 610  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 610  
agtgggcgtc tgtggtg

17

<210> 611  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 611  
ccccaagacg catatgac

18

<210> 612  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 612  
gcaggagagg ccggag

16

<210> 613  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 613  
gattacatct ccctgaacg

19

<210> 614  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 614  
tccgcagaca cctggag

17

<210> 615  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 615  
gaagtgggtg gctgtgg

17

<210> 616  
<211> 19

<212> DNA  
<213> Homo sapiens

<400> 616  
tttctacact tccgtgtcc

19

<210> 617  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 617  
acacctccat gtccgg

17

<210> 618  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 618  
ccggcagcac gcctac

16

<210> 619  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 619  
tattgggacg aggagacac

19

<210> 620  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 620  
ggcggccctt gtggcg

16

<210> 621  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 621  
ccggcaggtc gcctac

16

<210> 622  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 622  
ggacgggcac ttctcc

17

<210> 623

<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 623  
gaccctgcac ggctact

17

<210> 624  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 624  
ccatccagag gatgtatgg

19

<210> 625  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 625  
ccagaccagg gcgggc

16

<210> 626  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 626  
gctactcttg ggggcc

17

<210> 627  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 627  
ggacctggcg accctg

16

<210> 628  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 628  
cactcacagg ctgaccga

18

<210> 629  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 629  
ggcggccagt gtggcg

16

<210> 630  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 630  
gtgtccccgc ccggc 15

<210> 631  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 631  
tctgcccag cccctc 16

<210> 632  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 632  
cccatctcag ggtgaggggc t 21

<210> 633  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 633  
gcgctgcagc gtctcttcc 20

<210> 634  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 634  
gcccaggtct gggtcagggc cag 23

<210> 635  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 635  
atggctcccc gaaccctc 18

<210> 636  
<211> 18  
<212> DNA  
<213> Homo sapiens



<400> 636  
atggcgcccc gaaccctc

18

<210> 637  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 637  
catctcaggg tgaggggct

19

## SEQUENCE LISTING B

<110> CANON KABUSHI KAISHA

<120> Probe set and method for identifying HLA allele

<130> ff

<150> JP2003-430554

<151> 2003-12-25

<160> 1015

<170> PatentIn version 3.2

<210> 1

<211> 19

<212> DNA

<213> Homo sapiens

<400> 1

aggtatttct acacctccg

19

<210> 2

<211> 17

<212> DNA

<213> Homo sapiens

<400> 2

ctcacaccct ccagagc

17

<210> 3

<211> 15

<212> DNA

<213> Homo sapiens

<400> 3

gcctcctccg cgggc

15

<210> 4

<211> 17

<212> DNA

<213> Homo sapiens

<400> 4

ccgcgggcat gaccagt

17

<210> 5

<211> 16

<212> DNA

<213> Homo sapiens

<400> 5

gtgaggcgga gcagcg

16

<210> 6

<211> 16

<212> DNA  
<213> Homo sapiens

<400> 6  
tgaggcggag cagcgg

16

<210> 7  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 7  
gcctacctgg agggcga

17

<210> 8  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 8  
ggcgagtgcg tggagtg

17

<210> 9  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 9  
cggaaggac aagctgg

17

<210> 10<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 10  
ggagtggctc cgcagg

16

<210> 11  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 11  
gctacgtgga cgacacg

17

<210> 12  
<211> 20<212> DNA  
<213> Homo sapiens

<400> 12  
acagatctac aagaccaaca

20

<210> 13  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 13  
gtgaggcgga gcaggac

17

<210> 14  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 14  
cctcctccgc gggcata

17

<210> 15  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 15  
cgtcttccca gtccacca

18

<210> 16  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 16  
ctcacacct ccagagg

17

<210> 17  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 17  
accggaacac acagatctt

19

<210> 18  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 18  
acagatcttc aagaccaaca

20

<210> 19  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 19  
cgcgggcatg accagtc

17

<210> 20  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 20  
cggaacaca cagatctg

18

<210> 21  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 21  
cacagactga ccgagagaa

19

<210> 22  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 22  
ggccgggtct cacatca

17

<210> 23  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 23  
acatcatcca gaggatgtat

20

<210> 24  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 24  
ggatgtatgg ctgcgacc

18

<210> 25  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 25  
ctgcgacctg gggccc

16

<210> 26  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 26  
agacacagaa gtacaagcg

19

<210> 27  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 27  
caagcgccag gcacagg

17

<210> 28  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 28  
gcacaggctg accgagt

17

<210> 29  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 29  
gaggccgggt ctcacat

17

<210> 30  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 30  
gtctcacatc atccagagg

19

<210> 31  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 31  
cgctctctcc gcgggt

16

<210> 32  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 32  
caaggcccag gcacagg

17

<210> 33  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 33  
caagaccaac acacagactt

20

<210> 34  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 34  
cgcggtatg accagtc

17

<210> 35  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 35  
gcctacctgg agggcac

17

<210> 36  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 36  
ctggagaacg ggaaggag  
<210> 37  
<211> 16  
<212> DNA  
<213> Homo sapiens

18

<400> 37  
gacgctggag cgcgcg

16

<210> 38  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 38  
gcctacctgg agggcct

17

<210> 39  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 39  
ggcctgtgcg tggagtc

17

<210> 40  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 40  
cggccgctgg gagct

15

<210> 41  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 41  
tcctggaccg ccgcga

16

<210> 42  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 42  
cggaacctgc gcggcc

16

<210> 43  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 43  
gcctacctgg agggcc

16

<210> 44  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 44  
gggaggcggc ccgtgt

16

<210> 45  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 45  
gtgtggcgga gcaggac

17

<210> 46  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 46  
cgtgaggcgg agcagct

17

<210> 47  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 47  
ccggaacaca cagatctc

18

<210> 48  
<211> 18  
<212> DNA



<213> Homo sapiens

<400> 48

cacagactta ccgagagg

18

<210> 49

<211> 16

<212> DNA

<213> Homo sapiens

<400> 49

ctgcggaccc tgctcc

16

<210> 50

<211> 17

<212> DNA

<213> Homo sapiens

<400> 50

ccgcgggtat gaccagg

17

<210> 51

<211> 19

<212> DNA

<213> Homo sapiens

<400> 51

cactccatga ggtatttcg

19

<210> 52

<211> 18

<212> DNA

<213> Homo sapiens

<400> 52

ggtatttcga caccgcca

18

<210> 53

<211> 16

<212> DNA

<213> Homo sapiens

<400> 53

cgagagagga gccgcc

16

<210> 54

<211> 17

<212> DNA

<213> Homo sapiens

<400> 54

agcctacctg gagggca

17

<210> 55

<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 55  
gatgtgtagg aggaagagc

19

<210> 56  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 56  
ctgcgcaccg cgctcc

16

<210> 57  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 57  
ccgagagaac ctgcggat

18

<210> 58  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 58  
gagaacctgc ggatcgc

17

<210> 59  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 59  
ctgcggatcg cgctcc

16

<210> 60  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 60  
cacgctggag cgcgcg

16

<210> 61  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 61  
ggaccggaac acacaac

17

<210> 62  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 62  
cacttggcag acgatgtat

19

<210> 63  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 63  
ggagtattgg gaccggg

17

<210> 64  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 64  
ccgggacaca cagatctt

18

<210> 65  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 65  
cgtgtggcgg agcagct

17

<210> 66  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 66  
cgcggtacc accagg

16

<210> 67  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 67  
cacacagact gaccgagt

18

<210> 68  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 68  
ttcaagacca acacacagg

19

<210> 69  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 69  
ccgggagaca cagatctc

18

<210> 70  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 70  
gtgctgggcc ctgggc

16

<210> 71  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 71  
ggctcagatc acccagct

18

<210> 72  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 72  
gtctcacact tggcagac

18

<210> 73  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 73  
cgcgggcata accagtta

18

<210> 74  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 74  
cgatgtatgg ctgcgacc

18

<210> 75  
<211> 18  
<212> DNA

<213> Homo sapiens

<400> 75

tgggagccat cttccaa

18

<210> 76

<211> 17

<212> DNA

<213> Homo sapiens

<400> 76

gagcagctga gagcctg

17

<210> 77

<211> 17

<212> DNA

<213> Homo sapiens

<400> 77

ggtctcacac cctccat

17

<210> 78

<211> 17

<212> DNA

<213> Homo sapiens

<400> 78

ccagaccagc aggagac

17

<210> 79

<211> 17

<212> DNA

<213> Homo sapiens

<400> 79

ccctgagatg ggagcca

17

<210> 80

<211> 20

<212> DNA

<213> Homo sapiens

<400> 80

catgaggtat ttctacaccg

20

<210> 81

<211> 17

<212> DNA

<213> Homo sapiens

<400> 81

ctcccactcc atgaggc

17

<210> 82

<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 82  
gcaggagggg ccgga

16

<210> 83  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 83  
ggagtggctc cgagac

17

<210> 84  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 84  
gacgtgcag cgcgcg

16

<210> 85  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 85  
caccctccag aggatgtat

19

<210> 86  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 86  
tcctgctgct ctcggga

17

<210> 87  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 87  
gcgccccggg cgcca

15

<210> 88  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 88  
gagtattggg accgggag

18

<210> 89  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 89  
ccgtgaggcg gagcagt 17

<210> 90  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 90  
gaccaaactc aggacacc 18

<210> 91  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 91  
ccgcctacga cggcaaa 17

<210> 92  
<211> 16  
<212> DNA  
<213> Homo sapiens  
<400> 92  
gagctcctgg accgcg 16

<210> 93  
<211> 19  
<212> DNA  
<213> Homo sapiens  
<400> 93  
ggattacatc gccctgaat 19

<210> 94  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 94  
cgacacgcag ttcgtgc 17

<210> 95  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 95  
cagatctcca agaccaaca

19

<210> 96  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 96  
cggagctgtg gtcgcta

17

<210> 97  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 97  
cacctccag aggatgtt

18

<210> 98  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 98  
tacgcctacg acggcaaa

18

<210> 99  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 99  
cagatctgca agaccaaca

19

<210> 100  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 100  
cgagtccgag gatggct

17

<210> 101  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 101  
gggcctgtgc gtggac

16

<210> 102  
<211> 16



<212> DNA  
<213> Homo sapiens

<400> 102  
gggccggctc ccactt

16

<210> 103  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 103  
acatgaaggc ctccgcg

17

<210> 104  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 104  
gcagctgtgg tgggtgct

17

<210> 105  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 105  
gtgacccacc accccg

16

<210> 106  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 106  
gtattgggac cgggagat

18

<210> 107  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 107  
gcgagtccga ggatggc

17

<210> 108  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 108  
caccctccag aggatgtc

18

<210> 109  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 109  
ggaccgccgc ggacaa

16

<210> 110  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 110  
gatgtacggc tgcgacc

17

<210> 111  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 111  
gtctcacacc ctccagac

18

<210> 112  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 112  
ctcacaccct ccagacg

17

<210> 113  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 113  
accgagagaa cctgcgc

17

<210> 114  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 114  
cggggaaggag acgctgc

17

<210> 115  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 115  
ccctgaacga ggacctga

18

<210> 116  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 116  
ggagccccgc ttcacg

17

<210> 117  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 117  
aggtatttct acaccgcca

19

<210> 118  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 118  
tccgaggatg gcgccc

16

<210> 119  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 119  
gttcgacagc gaccca

17

<210> 120  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 120  
gagccgcggg cgcca

15

<210> 121  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 121  
ggcggagcag ctgagaa

17

<210> 122  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 122  
aacctacctg gagggcc

17

<210> 123  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 123  
acctacctgg agggcct

17

<210> 124  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 124  
ctccaagacc aacacacg

18

<210> 125  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 125  
ctacgtggac gacacgct

18

<210> 126  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 126  
ccgggagaca cagatctt

18

<210> 127  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 127  
acacacagac ttaccgagt

19

<210> 128  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 128  
cacagactta ccgagtga

19

<210> 129  
<211> 18

<212> DNA  
<213> Homo sapiens

<400> 129  
ccgcgggcat aaccagtt 18

<210> 130  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 130  
cccagttcgt gaggttca 18

<210> 131  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 131  
ccgggagaca cagatctg 18

<210> 132  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 132  
ggctcagatc acccagca 18

<210> 133  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 133  
acctacctgg agggcac 17

<210> 134  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 134  
cactccatga ggtatttc 19

<210> 135  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 135  
gaccccccaa agacacat 18

<210> 136  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 136  
gagacacaga tctccaagat

20

<210> 137  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 137  
gggaggcggc ccgtc

15

<210> 138  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 138  
gcgccgtgga tagagcaa

18

<210> 139  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 139  
gaccaacaca cagacttaca

20

<210> 140  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 140  
acaccctcca gaatatgtat

20

<210> 141  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 141  
ggagcccgc ttcattg

17

<210> 142  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 142  
ggattacatc gcctgaag

19

<210> 143  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 143  
caccctccag aggatgtg

18

<210> 144  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 144  
gcgccgtgga tagagcaa

18

<210> 145  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 145  
cgagagaacc tgcgcac

17

<210> 146  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 146  
gagaacctgc gcaccgc

17

<210> 147  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 147  
gtctcacacc ctccagaat

19

<210> 148  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 148  
caggaggggc cggagc

16

<210> 149  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 149

ctgggcttct accctgg

17

<210> 150  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 150  
cacagactga ccgagagg

18

<210> 151  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 151  
cgccgcggac acggca

16

<210> 152  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 152  
ctgctctggg gggcag

16

<210> 153  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 153  
ccagagcgag gccggt

16

<210> 154  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 154  
ctccgtgtcc cggcct

16

<210> 155  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 155  
cgcggtacc accagc

16

<210> 156  
<211> 17  
<212> DNA



<213> Homo sapiens

<400> 156  
tgaccgagac ctgggct

17

<210> 157  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 157  
caggaggggc cggagtt

17

<210> 158  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 158  
cgagagagcc tgcggac

17

<210> 159  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 159  
cacggcggct cagatct

17

<210> 160  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 160  
cggagcagct gagagct

17

<210> 161  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 161  
ggcccgcgacgg gcgct

15

<210> 162  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 162  
cgcgggcatg accagtt

17

<210> 163  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 163  
ccatgtcccg gcccg

16

<210> 164  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 164  
gaccgcggcg gacacc

16

<210> 165  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 165  
ctgcgacgtg gggccc

16

<210> 166  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 166  
tccgaggacg gagccc

16

<210> 167  
<211> 15  
<212> DNA  
<213> Homo sapiens  
<400> 167  
gagccccggg cgcca

15

<210> 168  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 168  
ccgcgagtcc gaggac

16

<210> 169  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 169  
cacatcatcc agaggatgtt

20

<210> 170  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 170  
cacagactta ccgagagaa

19

<210> 171  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 171  
catgtacggc tgcgacc

17

<210> 172  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 172  
ctgcggaacc tgcgcga

17

<210> 173  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 173  
catgaccagt ccgcctg

17

<210> 174  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 174  
caccatccag aggatgtc

18

<210> 175  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 175  
gacctgagct cctggaca

18

<210> 176  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 176  
cgagagagcc tgcgcac

17

<210> 177  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 177  
gcaggagggg ccggg

15

<210> 178  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 178  
gaacctacct ggaggga

18

<210> 179  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 179  
aacctacctg gagggcat

18

<210> 180  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 180  
ctggaccgcg gcggag

16

<210> 181  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 181  
tagagcagga ggggcca

17

<210> 182  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 182  
tctcacactt ggcagacg

18

<210> 183  
<211> 17

<212> DNA  
<213> Homo sapiens

<400> 183  
ggcggagcag cggagaa

17

<210> 184  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 184  
cggcccggcc gcgga

15

<210> 185  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 185  
ggtctcacac cctccac

17

<210> 186  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 186  
ccgcgggtat aaccagtta

19

<210> 187  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 187  
ggcggagcag tggagaa

17

<210> 188  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 188  
gaatattggg accgggag

18

<210> 189  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 189  
gcggctcaga tcaccg

17

<210> 190  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 190  
cacaccctcc agagcac

17

<210> 191  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 191  
agtgggaggc ggcct

16

<210> 192  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 192  
gaccgagacc tggcgc

16

<210> 193  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 193  
cgccacgagt ccgagga

17

<210> 194  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 194  
gatctcccag cgcaagtt

18

<210> 195  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 195  
tggaggcggc ccgtgt

16

<210> 196  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 196  
tgaccgagac ctgggct

17

<210> 197  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 197  
gcgctcctgg accgcg

16

<210> 198  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 198  
agggcgagtg cgtggat

17

<210> 199  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 199  
ggtatttcca caccgcca

18

<210> 200  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 200  
ccgcgggcat aaccaga

17

<210> 201  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 201  
ccggagtatt gggaccc

17

<210> 202  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 202  
ggtctcacat catccagg

18

<210> 203  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 203  
cgcttacgac ggcaaga

17

<210> 204  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 204  
cgcgggcata accagtc

17

<210> 205  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 205  
ccgggtctca cacttgg

17

<210> 206  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 206  
cacttggcag aggatgtat

19

<210> 207  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 207  
gagagagcct gcggaag

17

<210> 208  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 208  
cggaaggac acgctgc

17

<210> 209  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 209  
cacgctgcag cgcgcg

16

<210> 210  
<211> 19



<212> DNA  
<213> Homo sapiens

<400> 210  
ccatctctga ccatgaggt 19

<210> 211  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 211  
cgaggagacac agatctcg 18

<210> 212  
<211> 16  
<212> DNA  
<213> Homo sapiens  
<400> 212  
ggaggcggcc cgtgtc 16

<210> 213  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 213  
agagaacctg cgcaccg 17

<210> 214  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 214  
gggagccccg cttcatt 17

<210> 215  
<211> 16  
<212> DNA  
<213> Homo sapiens  
<400> 215  
ctgcgcaccc cgctcc 16

<210> 216  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 216  
ggccggagta ttgggag 17

<210> 217  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 217  
ccgcgggcat aaccagg

17

<210> 218  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 218  
ggcgagtgcg tggagtc

17

<210> 219  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 219  
cgggcgccgt gggtg

15

<210> 220  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 220  
gagagaacct gcggatcg

18

<210> 221  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 221  
gtggacgaca cgctgttg

18

<210> 222  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 222  
tggagggcct gtgcgc

16

<210> 223  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 223  
gacggcaagg attacatca

19

<210> 224  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 224  
ccgcgggtat aaccagtt 18

<210> 225  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 225  
ctccgcgggt ataaccg 17

<210> 226  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 226  
gcggagcagg acagagt 17

<210> 227  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 227  
gagacacaga agtacaagc 19

<210> 228  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 228  
cgccaggcac agactgg 17

<210> 229  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 229  
tgtggtcgct gctgtgg 17

<210> 230  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 230  
cctgcggaac ctgtcc

17

<210> 231  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 231  
agaaccttc agaagtga

19

<210> 232  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 232  
agccccgctt catctcc

17

<210> 233  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 233  
ccgcgggtat aaccagta

19

<210> 234  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 234  
ggcctgtgcg tggagg

16

<210> 235  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 235  
cggtatcggc tccgcg

16

<210> 236  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 236  
ttgcctacg acggcaaa

18

<210> 237  
<211> 18

<212> DNA  
<213> Homo sapiens

<400> 237  
ctcctccgcg ggcataaa

18

<210> 238  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 238  
gcgtctcctc cgcggt

16

<210> 239  
<211> 15  
<212> DNA  
<213> Homo sapiens  
<400> 239  
cgggcgcctc ctccc

15

<210> 240  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 240  
gagtccgagg acggaga

17

<210> 241  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 241  
atagagcagg aggggcg

17

<210> 242  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 242  
ccagaccagc aggagatg

18

<210> 243  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 243  
cagcatgagg ggctgct

17

<210> 244  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 244  
cagacttacc gagagaact

19

<210> 245  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 245  
gcgacgccgc gagtca

16

<210> 246  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 246  
ccgcggggag ccccc

15

<210> 247  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 247  
cgagagagcc tgcggat

17

<210> 248  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 248  
gagagcctgc ggatcgc

17

<210> 249  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 249  
ggcacagact gaccgagt

18

<210> 250  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 250  
gaccgccgcg gacacc

16

<210> 251  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 251  
gcaggagggg ccggc

15

<210> 252  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 252  
ccgcgagtc gagagg

16

<210> 253  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 253  
ggtctcacac ttggcagat

19

<210> 254  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 254  
acggcacccc gaaccc

16

<210> 255  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 255  
ctcctcctgc tgctctg

17

<210> 256  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 256  
agacacagaa gtacaagg

19

<210> 257  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 257  
ggtctcacat catccaggt

19

<210> 258  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 258  
gcgggcatga ccagtct

17

<210> 259  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 259  
gaccgcggcg gacaca

16

<210> 260  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 260  
gccggagtat tgggacg

17

<210> 261  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 261  
cctcctccgc gggtata

17

<210> 262  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 262  
cacggcggct cagatcat

18

<210> 263  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 263  
tgcggatcgc gctccc

16

<210> 264  
<211> 18



<212> DNA  
<213> Homo sapiens

<400> 264  
gccggagtat tgggacga 18

<210> 265  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 265  
ggaggcggcc cgtgc 15

<210> 266  
<211> 16  
<212> DNA  
<213> Homo sapiens  
<400> 266  
cgacgccgag agtcca 16

<210> 267  
<211> 18  
<212> DNA  
<213> Homo sapiens  
  
<400> 267  
gtcaccgtag ctgtggtc 18

<210> 268  
<211> 19  
<212> DNA  
<213> Homo sapiens  
  
<400> 268  
gtgtaggagg aagagttct 19

<210> 269  
<211> 18  
<212> DNA  
<213> Homo sapiens  
  
<400> 269  
cagagcctac ctggagga 18

<210> 270  
<211> 18  
<212> DNA  
<213> Homo sapiens  
  
<400> 270  
gtcatcgag ctgtggtt 18

<210> 271  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 271  
cacctccgtg tcccgg

16

<210> 272  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 272  
cctccagagc atgtacgg

18

<210> 273  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 273  
ccgcgggcat gaccag

16

<210> 274  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 274  
catgaccagt acgcctac

18

<210> 275  
<211> 16  
<212> DNA  
<213> Homo sapiens  
<400> 275  
ggagcagcgg agagcc

16

<210> 276  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 276  
gagcagcggg gagccta

17

<210> 277  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 277  
ggagggcgag tgcgtg

16

<210> 278  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 278  
cgtggagtgg ctccgc

16

<210> 279  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 279  
acaagctgga ggcgct

17

<210> 280  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 280  
ctccgcaggt acctgga

17

<210> 281  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 281  
ggacgacacg cagttcgt

18

<210> 282  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 282  
aagaccaaca cacagactg

19

<210> 283  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 283  
ggagcaggac agagccta

18

<210> 284  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 284  
cgcgggcata accagtac

18

<210> 285  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 285  
cagtccacca tccccatc

18

<210> 286  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 286  
cctccagagg atgtacgg

18

<210> 287  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 287  
acacagatct tcaagaccaa

20

<210> 288  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 288  
tgaccagtcc gcctacg

17

<210> 289  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 289  
cacagatctg caaggccc

18

<210> 290  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 290  
ccgagagaac ctgcgga

17

<210> 291  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 291  
tctcacatca tccagagga

19

<210> 292  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 292  
gaggatgtat ggctgcga

18

<210> 293  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 293  
ctgcgacctg gggccc

16

<210> 294  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 294  
ctggggcccg acggg

15

<210> 295  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 295  
gtacaagcgc caggcac

17

<210> 296  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 296  
aggcacaggc tgaccga

17

<210> 297  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 297  
tgaccgagtg agcctgc

17

<210> 298

<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 298  
ggtctcacat catccagag 19

<210> 299  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 299  
catccagagg atgtacgg 18

<210> 300  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 300  
tccgcgggta tgaccag 17

<210> 301  
<211> 20  
<212> DNA  
<213> Homo sapiens  
<400> 301  
aagaccaaca cacagactta 20

<210> 302  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 302  
acacagactt accgagaga 19

<210> 303  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 303  
ggagggcacg tgcgtg 16

<210> 304  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 304  
gggaaggaga cgctgga 17

<210> 305  
<211> 17

<212> DNA  
<213> Homo sapiens

<400> 305  
gaaggagacg ctggagc

17

<210> 306  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 306  
ggagggcctg tgcgtg

16

<210> 307  
<211> 16  
<212> DNA  
<213> Homo sapiens  
<400> 307  
cgtggagtcg ctccgc

16

<210> 308  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 308  
cggggagctc cgcttc

16

<210> 309  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 309  
cgccgcgaac acggcg

16

<210> 310  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 310  
tgcgcgcca ctacaac

17

<210> 311  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 311  
ggagggcctg tgcgtg

16

<210> 312  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 312  
ggcccgtgtg gcggag

16

<210> 313  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 313  
ggagcagctg agagcct

17

<210> 314  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 314  
cacagatctc caagaccaa

19

<210> 315  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 315  
acacagactt accgagagg

19

<210> 316  
<211> 16  
<212> DNA  
<213> Homo sapiens  
<400> 316  
ccgagaggac ctgcgg

16

<210> 317  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 317  
ccctgctcg ctactac

17

<210> 318  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 318  
tatgaccagg acgcctac

18



<210> 319  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 319  
aggtatttcg acaccgcc 18

<210> 320  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 320  
caccgccatg tcccgg 16

<210> 321  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 321  
gagccgccgg cgccg 15

<210> 322  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 322  
ggagggcacg tgcgtg 16

<210> 323  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 323  
gaggaagagc tcaggtgg 18

<210> 324  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 324  
ccgcgctccg ctactac 17

<210> 325  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 325  
cctgcggatc gcgctc

16

<210> 326  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 326  
gcggatcgcg ctccgc

16

<210> 327  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 327  
tcgcgctccg ctactac

17

<210> 328  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 328  
gaaggacacg ctggagc

17

<210> 329  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 329  
acacacagac cttcaagac

19

<210> 330  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 330  
gacgatgtat ggctgcga

18

<210> 331  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 331  
gggaccggga cacacag

17

<210> 332  
<211> 17

<212> DNA  
<213> Homo sapiens

<400> 332  
accaccagga cgcctac

17

<210> 333  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 333  
aacacacagg ctgaccga

18

<210> 334  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 334  
gccctgggct tctaccc

17

<210> 335  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 335  
cacccagctc aagtggg

17

<210> 336  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 336  
cttggcagac gatgtatgg

19

<210> 337  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 337  
taaccagtta gcttacgac

19

<210> 338  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 338  
ctgcgacctg gggccg

16

<210> 339  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 339  
atcttcccaa tccaccgtc

19

<210> 340  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 340  
gagagcctgc ctggagg

17

<210> 341  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 341  
accctccagt ggatgtatg

19

<210> 342  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 342  
agcaggagac agaaccttc

19

<210> 343  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 343  
atgggagcca tcttcca

18

<210> 344  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 344  
tctacaccgc cgtgtcc

17

<210> 345  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 345  
tccatgaggc atttctacac

20

<210> 346  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 346  
ggggccggaa tattggga

18

<210> 347  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 347  
tccgcagaca cctggag

17

<210> 348  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 348  
gacgctgcag cgcgcg

16

<210> 349  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 349  
ctctcgggag ccctgg

16

<210> 350  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 350  
cgggcgcat ggataga

17

<210> 351  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 351  
ggaccgggag acacagat

18

<210> 352  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 352  
cggagcagtg gagagcc

17

<210> 353  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 353  
tcaggacacc gagcttgt 18

<210> 354  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 354  
cgacggcaaa gattacatc 19

<210> 355  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 355  
tggaccgcgg cggaca 16

<210> 356  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 356  
cgccctgaat gaggacct 18

<210> 357  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 357  
cagttcgtgc ggttcgac 18

<210> 358  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 358  
gtggtcgcta ctgtgatg 18

<210> 359  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 359  
agaggatggtt tggctgcg 18

<210> 360  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 360  
cacagatctg caagaccaa

19

<210> 361  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 361  
aggatggctc cccggg

16

<210> 362  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 362  
tgcgtggacg ggctcc

16

<210> 363  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 363  
gctcccactt catgaggt

18

<210> 364  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 364  
gcctccgcgc agactta

17

<210> 365  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 365  
tggtggtgct ttctggag

18

<210> 366  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 366  
accaccccggt ctctgac

17

<210> 367  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 367  
accgggagat acagatctc

19

<210> 368  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 368  
gaggatggcg ccccg

16

<210> 369  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 369  
gaggatgtct ggctgcg

17

<210> 370  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 370  
cgcggaacaag gcggct

16

<210> 371  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 371  
ccctccagac gatgtacg

18

<210> 372  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 372  
cctccagacg atgtacgg

18

<210> 373  
<211> 16



<212> DNA  
<213> Homo sapiens

<400> 373  
aacctgcgca ccgcgc

16

<210> 374  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 374  
aggacctgag ctcttg

17

<210> 375  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 375  
gcttcacgc agtgggc

17

<210> 376  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 376  
atggcgcccc gggcg

15

<210> 377  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 377  
cgacgccacg agtccg

16

<210> 378  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 378  
cagctgagaa cctacctg

18

<210> 379  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 379  
ccaacacacg gacttacc

18

<210> 380  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 380  
gggaaggaga cgctgca

17

<210> 381  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 381  
acgacacgct gttcgtga

18

<210> 382  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 382  
cttaccgagt gaacctgc

18

<210> 383  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 383  
ccgagtgaac ctgcgga

17

<210> 384  
<211> 19  
<212> DNA  
<213> Homo sapiens  
<400> 384  
ataaccagtt cgcctacga

19

<210> 385  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 385  
gtgaggttca acagcgac

18

<210> 386  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 386  
caccagcac aagtggg

17

<210> 387  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 387  
cggagcagct gagaacct 18  
/

<210> 388  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 388  
aggtatttcc acacctccg 19

<210> 389  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 389  
aaagacacat gtgaccac 19

<210> 390  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 390  
atctccaaga tcaacacaca 20

<210> 391  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 391  
ggcccgtcag gcggag 16

<210> 392  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 392  
gatagagcaa gaggggcc 18

<210> 393  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 393  
cagacttaca gagagagcc

19

<210> 394  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 394  
gaatatgtat ggctgcgac

19

<210> 395  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 395  
cgcttcattg cagtgggc

18

<210> 396  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 396  
gccctgaagg aggacct

17

<210> 397  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 397  
cttaccgagt gagcctgc

18

<210> 398  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 398  
gaggatgtgc ggctgcg

17

<210> 399  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 399  
gatagagcaa gaggggcc

18

<210> 400  
<211> 18

<212> DNA  
<213> Homo sapiens

<400> 400  
cacagatctg caaggcca 18

<210> 401  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 401  
cctgcgcacc gcgctc 16

<210> 402  
<211> 15  
<212> DNA  
<213> Homo sapiens  
<400> 402  
cgcaccgcgc tccgc 15

<210> 403  
<211> 19  
<212> DNA  
<213> Homo sapiens  
<400> 403  
cctccagaat atgtatggc 19

<210> 404  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 404  
ggccggagca ttgggac 17

<210> 405  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 405  
tctaccctgg ggagatca 18

<210> 406  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 406  
ggacacggca gctcagat 18

<210> 407  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 407  
gggggcagtg gccctg

16

<210> 408  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 408  
gaggccggtt ctcacac

17

<210> 409  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 409  
tcccggcctg gccgc

15

<210> 410  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 410  
accaccagca cgcctac

17

<210> 411  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 411  
acctgggctg gctccc

16

<210> 412  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 412  
ggtcacggag ccccga

16

<210> 413  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 413

gccggagttt tgggacc

17

<210> 414

<211> 19

<212> DNA

<213> Homo sapiens

<400> 414

cctccagaat atgtacggc

19

<210> 415

<211> 16

<212> DNA

<213> Homo sapiens

<400> 415

cctgaggacc ctgctc

16

<210> 416

<211> 17

<212> DNA

<213> Homo sapiens

<400> 416

ctcagatctc ccagcgc

17

<210> 417

<211> 18

<212> DNA

<213> Homo sapiens

<400> 417

gctgagagct tacctgga

18

<210> 418

<211> 15

<212> DNA

<213> Homo sapiens

<400> 418

cgggcgttcc tccgc

15

<210> 419

<211> 18

<212> DNA

<213> Homo sapiens

<400> 419

atgaccagtt cgcttacg

18

<210> 420

<211> 18

<212> DNA

<213> Homo sapiens

<400> 420

cgcgggcata accagttc

18

<210> 421

<211> 15

<212> DNA

<213> Homo sapiens

<400> 421

cggcccgtcc gcggg

15

<210> 422

<211> 16

<212> DNA

<213> Homo sapiens

<400> 422

gcggacaccg cggtc

16

<210> 423

<211> 19

<212> DNA

<213> Homo sapiens

<400> 423

tctcacatca tccagagca

19

<210> 424

<211> 15

<212> DNA

<213> Homo sapiens

<400> 424

gtggggcccg acggg

15

<210> 425

<211> 15

<212> DNA

<213> Homo sapiens

<400> 425

acggagcccc gggcg

15

<210> 426

<211> 16

<212> DNA

<213> Homo sapiens

<400> 426

tccgaggacg gagccc

16



<210> 427  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 427  
acctgcgcga ctactaca 18

<210> 428  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 428  
gtccgcctgc gacggc 16

<210> 429  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 429  
tcctggacag cggcgg 16

<210> 430  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 430  
ccgagagaac ctgcgca 17

<210> 431  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 431  
ggggccggga tattggg 17

<210> 432  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 432  
tggaggcat gtgcgtg 17

<210> 433  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 433

ggagggcatg tgcgtgg

17

<210> 434

<211> 15

<212> DNA

<213> Homo sapiens

<400> 434

gcggcggaga ccgcg

15

<210> 435

<211> 18

<212> DNA

<213> Homo sapiens

<400> 435

ggaggggccca gaatattg

18

<210> 436

<211> 18

<212> DNA

<213> Homo sapiens

<400> 436

cttggcagac gatgtacg

18

<210> 437

<211> 18

<212> DNA

<213> Homo sapiens

<400> 437

ttggcagacg atgtacgg

18

<210> 438

<211> 18

<212> DNA

<213> Homo sapiens

<400> 438

cagcggagaa cctacctg

18

<210> 439

<211> 15

<212> DNA

<213> Homo sapiens

<400> 439

ggccgcggag agccc

15

<210> 440

<211> 18

<212> DNA

<213> Homo sapiens

<400> 440

caccctccac aggatgta

18

<210> 441

<211> 17

<212> DNA

<213> Homo sapiens

<400> 441

cggagcagtg gagaacc

17

<210> 442

<211> 18

<212> DNA

<213> Homo sapiens

<400> 442

cagtggagaa cctacctg

18

<210> 443

<211> 17

<212> DNA

<213> Homo sapiens

<400> 443

gatcaccgg cgcaagt

17

<210> 444

<211> 17

<212> DNA

<213> Homo sapiens

<400> 444

ccagagcacg tacggct

17

<210> 445

<211> 16

<212> DNA

<213> Homo sapiens

<400> 445

ggcggccctt gtggcg

16

<210> 446

<211> 16

<212> DNA

<213> Homo sapiens

<400> 446

acctgggagg gctccc

16

<210> 447  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 447  
gtcacggcac cccgaac

17

<210> 448  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 448  
aggtatttcc acaccgcc

18

<210> 449  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 449  
gtccgaggaa ggagccg

17

<210> 450  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 450  
gcgcaagttg gaggcgg

17

<210> 451  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 451  
acctgggctg gctccc

16

<210> 452  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 452  
tgcgtggatt ggctccg

17

<210> 453  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 453

.cataaccaga acgcctacg

19

<210> 454  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 454  
ttgggaccg gagacac

17

<210> 455  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 455  
atcatccagg tgatgtatgg

20

<210> 456  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 456  
gacggcaaga attacatcg

19

<210> 457  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 457  
ataaccagtc cgcctacg

18

<210> 458  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 458  
ctgcggaagc tgcgcg

16

<210> 459  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 459  
tcacacttgg cagaggatg

19

<210> 460  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 460  
cacgctgcag cgcgcg

16

<210> 461  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 461  
accatgaggt caccctga

18

<210> 462  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 462  
acagatctcg aagaccaac

19

<210> 463  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 463  
gcccggtgtcg cggagc

16

<210> 464  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 464  
gcgcaccgcg ctccg

15

<210> 465  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 465  
ccgcttcatt gcagtggg

18

<210> 466  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 466  
cctgcgacc ccgctc

16

<210> 467

<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 467  
ccccgctccg ctactac

17

<210> 468  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 468  
gtattgggag cgggagac

18

<210> 469  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 469  
gcgggcataa ccaggac

17

<210> 470  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 470  
cataaccagg acgcctac

18

<210> 471  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 471  
ctccgcgggt ataaccag

18

<210> 472  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 472  
ccgtgggtgg agcagg

16

<210> 473  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 473  
gcggatcgcg ctccgc

16

<210> 474  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 474  
cacgctgttg gtgaggtt 18

<210> 475  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 475  
cctgtgcgcg gagtcg 16

<210> 476  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 476  
gattacatca ccctgaacg 19

<210> 477  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 477  
ggtataaccg gttagccta 19

<210> 478  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 478  
aggacagagt ctacctgg 18

<210> 479  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 479  
aagtacaagc gccaggca 18

<210> 480  
<211> 18  
<212> DNA  
<213> Homo sapiens



<400> 480  
cacagactgg ccgagtga

18

<210> 481  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 481  
gctgctgtgg tgtgtagg

18

<210> 482  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 482  
aacctgctcc gctactac

18

<210> 483  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 483  
cagaagtggga cagctgtg

18

<210> 484  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 484  
cagcgcgcgga acccc

15

<210> 485  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 485  
cttcactcc gtgggcta

18

<210> 486  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 486  
cgtggagggg ctccgc

16

<210> 487

<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 487  
cgctccgcga ctacaac

17

<210> 488  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 488  
cgggcataaa cagtacgc

18

<210> 489  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 489  
cctccgcggt tataacca

18

<210> 490  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 490  
cctcctcccc gggcat

16

<210> 491  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 491  
gacggagacc cgggcg

16

<210> 492  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 492  
ggaggggcgg gagtatt

17

<210> 493  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 493  
gcaggagatg gaaccttc

18

<210> 494  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 494  
ggggctgctg aagccc

16

<210> 495  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 495  
cgggtcacgg cgccc

15

<210> 496  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 496  
tccgaggacg gagccg

16

<210> 497  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 497  
cgagagaact tgcggatc

18

<210> 498  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 498  
cgcgagtcag aggacgg

17

<210> 499  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 499  
ggagccccc ttcacg

17

<210> 500  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 500  
ggggccggcg tattgg 16

<210> 501  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 501  
tccgagaggg gagccg 16

<210> 502  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 502  
cttggcagat gatgtatgg 19

<210> 503  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 503  
gtacaagggc caggcac 17

<210> 504  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 504  
tcatccaggt gatgtatgg 19

<210> 505  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 505  
tgaccagtct gcctacga 18

<210> 506  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 506  
gcggacacag cggctc 16

<210> 507

<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 507  
tattgggacg gggagaca 18

<210> 508  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 508  
cgcggtata accagtac 18

<210> 509  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 509  
ctcagatcat ccagcgca 18

<210> 510  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 510  
cgcgctccc tactaca 17

<210> 511  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 511  
attgggacga ggagacac 18

<210> 512  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 512  
gcccgtgcgg cggag 15

<210> 513  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 513  
gaaggagacg ctgcagc 17

<210> 514  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 514  
gcgagtccaa gagggga

17

<210> 515  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 515  
gctgtggtcg ctgtggt

17

<210> 516  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 516  
cctggaggac ctgtgcg

17

<210> 517  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 517  
agctgtggtt gctactgtg

19

<210> 518  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 518  
ctgagctctt ctcctacac a

21

<210> 519  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 519  
tccttcccgt tctccaggt

19

<210> 520  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 520  
aggtctcggg caggcca

18

<210> 521  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 521  
gctccactc catgaggtat ttc

23

<210> 522  
<211> 1020  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (955)..(957)  
<223> n is a, c, g, or t

<400> 522  
atgttggtca tggcgccccg aaccgtcctc ctgtgtctct cggcgccctt ggcctgacc 60  
gagacctggg cgggtccca ctccatgagg tatttctaca cctccgtgtc cggccccggc 120  
cgcgggggagc cccgcttcat ctgagtgagg tacgtggacg acaccagtt cgtgaggttc 180  
gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
agcatgtacg gctgcgacgt ggggcccggc gggcgccctc tccggggca tgaccagtac 420  
gcctacgacg gcaaggatta catgccctg aacgaggacc tgcgtcctg gaccgccg 480  
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagcgg 540  
agagcctacc tggaggcgga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccacc catctctgac 660  
catgaggcca cctgaggtg ctgggccctg gtttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggcgagga ccaaaactcag gacactgagc ttgtggagac cagaccagca 780  
ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
tcttccagc ccaccgtccc catcgtgggc attgttctg gcctggctgt cctannngca 960  
gttgtgtca tcggagctgt ggtcgtctgt gtgatgtgta ggaggaagag ttcaggtgga 1020

<210> 523  
<211> 1009  
<212> DNA  
<213> Homo sapiens

<400> 523  
atgttggtca tggcgccccg aaccgtcctc ctgtgtctct cggcgccctt ggcctgacc 60  
gagacctggg cgggtccca ctccatgagg tatttctaca cctccgtgtc cggccccggc 120  
cgcgggggagc cccgcttcat ctgagtgagg tacgtggacg acaccagtt cgtgaggttc 180  
gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
agcatgtacg gctgcgacgt ggggcccggc gggcgccctc tccggggca tgaccagtac 420  
gcctacgacg gcaaggatta catgccctg aacgaggacc tgcgtcctg gaccgccg 480  
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagcgg 540  
agagcctacc tggaggcgga gtgcgtggag tggctccgca ggtacctgga gaacgggaag 600

gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccaccc catctctgac 660  
 catgaggcca ccctgaggtg ctgggccctg ggtttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagtt 1009

<210> 524  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 524  
 gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cggcgccgt ggatagagca ggagggccg gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggattacat gcacctgaac gaggacctgc gctcctggac cgcccgggac acggcggtc 420  
 agatcaccca gcgcaagtgg gagggcgccc gtgaggggga gcagcggaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac aagctggagc 540  
 gcgctg 546

<210> 525  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 525  
 atgttggtca tggcgccccg aaccgtctc ctgctgctct cggcgccct ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca cctccgtgc ccggcccgcc 120  
 cgcggggagc ccgcttcat ctcaagtggc tacgtggacg acaccagtt cgtgaggtc 180  
 gacagcgagc ccgagagtc gagagaggag ccgcgggccc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc tacaagacca acacacagac tgaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgagct ggggcccggc gggcgccctc tccgcgggca tgaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg gaccgcccgc 480  
 gacacggcgg ctacagatcac ccagcgcaag tgggaggcgg ccctgaggc ggagcagcgg 540  
 agagcctacc tggagggcga gtgcgtggag tggtccgca gatactgga gaacgggaag 600  
 gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccaccc catctctgac 660  
 catgaggcca ccctgaggtg ctgggccctg ggtttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccc 900  
 tcttccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc aggtgga 1017

<210> 526  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 526  
 atgttggtca tggcgccccg aaccgtctc ctgctgctct cggcgccct ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca cctccgtgc ccggcccgcc 120



cgcggggagc cccgcttcat ctcaagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgagagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccgaggtatt gggaccggaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca tgaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgccgag 480  
 gacacggcgg ctacagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcaggag 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gacaagctgg agcgcgctga ccccccag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggtttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagc ccacctccc catcgtgggc attgtgtctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctgtgtg atgtgttaga ggaagagttc aggtgga 1017

&lt;210&gt; 527

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 527

atgtgtgtca tggcgccccg aaccgtctc ctgctgtctt cgcgggccct ggccctgacc 60  
 gagacctggg ccggtctcca ctccatgagg tatttctaca cctccgtgtc ccgccccggc 120  
 cgcggggagc cccgcttcat ctcaagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgagagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccgaggtatt gggaccggaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgccgag 480  
 gacacggcgg ctacagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagcgg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gacaagctgg agcgcgctga ccccccag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggtttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagc ccacctccc catcgtgggc attgtgtctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctgtgtg atgtgttaga ggaagagttc aggtgga 1017

&lt;210&gt; 528

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 528

atgtgtgtca tggcgccccg aaccgtctc ctgctgtctt cgcgggccct ggccctgacc 60  
 gagacctggg ccggtctcca ctccatgagg tatttctaca cctccgtgtc ccgccccggc 120  
 cgcggggagc cccgcttcat ctcaagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgagagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccgaggtatt gggaccggaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgccgag 480  
 gacacggcgg ctacagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagcgg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gacaagctgg agcgcgctga ccccccag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggtttctacc ctgcggagat cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtgggtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagc ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgttagga ggaagagttc aggtgga 1017

<210> 529  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 529  
 gctccactc catgaggtat ttctacacct ccgtgtccc gcccgccgc ggggagcccc 60  
 gcttcactc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120  
 cgagtccgag agaggagccg cgggcgcgt ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtgg gccggacggg cgctctccc gcgggcatga ccagtacgc tacgacggca 360  
 aggattacat gcacctgaac gaggacctgc gctcctggac cgcgcggac acggcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctactgg 480  
 agggcgagt cggtggagtg ctccgcagat acctggagaa cgggaaggac aagctggagc 540  
 gcgctg 546

<210> 530  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 530ggctccact ccatgaggta ttctacacc tccgtgtccc ggcccgccg cggggagccc 60  
 cgcttcactc cagtgggcta cgtggacgac acccagttcg tgaggttcga cagcgacgcc 120  
 gcgagtccga gagaggagcc gcgggcgcgt tgatagagc agggggggcc ggagtattgg 180  
 gaccggaaca cacagatctt caagaccaac acacagactg accgagagag cctgcggaac 240  
 ctgcgcggct actacaacca gagcgaggcc ggtctcaca cctccagag catgtacggc 300  
 tgcgacgtgg ggccggacgg gcgctctc cgcgggcatg accagtacgc ctacgacggc 360  
 aaggattaca tcgcctgaa cgaggacctg cgctcctgga ccgcccgga caggcggct 420  
 cagatcaccc agcgcaagtg ggaggcgcc cgtgaggcg agcagcggag agcctactg 480  
 gagggcgagt cggtggagtg gctccgaga tacctggaga acgggaagga caagctggag 540  
 cgctg 546

<210> 531  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

<400> 531  
 atgttggtca tggcgcccc aaccgtctc ctgctgctt cggcgccct ggccctgacc 60  
 gagacctggg ccggtccca ctcatgagg tattttaca cctccgtgt ccggcccgcc 120  
 cggggggagc ccgcttcat ctcatgggc tacgtggac acaccagtt cgtgaggtc 180  
 gacagcgac ccgagagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgact ggggcggac gggcgccct tccgcgggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgcgtcctg gaccgccgcg 480  
 gacacggcg ctcagatcac ccagcgcaag tgggaggcgg ccgtgaggc ggagcagcgg 540  
 agagcctacc tggaggcgga gtgcgtggag tggctccga gatactgga gaacgggaag 600  
 gacaagctgg agcgcgctg 619

<210> 532  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 532  
 gctccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctgc aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcctggac cgccgaggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 533  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 533  
 gctccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagaa ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcctggac cgccgaggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 534  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 534  
 gctccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcctggac cgccgaggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 535  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 535

```

gctccactc catgaggtat ttctacacct cegtgtccc gcccggccgc ggggagcccc 60
gcttcactc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcagag aggggagccg cgggcgccgt ggttgagca ggaggggccc gagtattggg 180
accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc ctgcggaacc 240
tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300
gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctgc gtcctggac cgcgcggac acggcggctc 420
agatcaccca gcgaagtgg gaggcgccc gtgaggcgga gcagcggaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac aagctggagc 540
gcgctg 546

```

&lt;210&gt; 536

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 536

```

gctccactc catgaggtat ttctacacct cegtgtccc gcccggccgc ggggagcccc 60
gcttcactc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcagag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240
tgcgggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtacggct 300
gcgacgtggg gccggacggg cgcctcctcc gcgggtatga ccagtacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctgc gtcctggac cgcgcggac acggcggctc 420
agatcaccca gcgaagtgg gaggcgccc gtgaggcgga gcagcggaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac aagctggagc 540
gcgctg 546

```

&lt;210&gt; 537

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 537

```

gctccactc catgaggtat ttctacacct cegtgtccc gcccggccgc ggggagcccc 60
gcttcactc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcagag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accggaacac acagatctac aaggcccagg cacagactga ccgagtgagc ctgcggaacc 240
tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300
gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctgc gtcctggac cgcgcggac acggcggctc 420
agatcaccca gcgaagtgg gaggcgccc gtgaggcgga gcagcggaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac aagctggagc 540
gcgctg 546

```

&lt;210&gt; 538

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 538

```

gctccactc catgaggtat ttctacacct cegtgtccc gcccggccgc ggggagcccc 60
gcttcactc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcagag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accggaacac acagatctac aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300

```

gcgacgtggg gccggacggg cgctctctcc ggggcatga ccagtacgcc tacgacggca 360  
 aggtattacat cgccctgaac gaggacctgc gctcctggac cgccgaggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 539  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 539  
 gctccactc catgaggtat ttctacacct ccgtgtccc gcccggccgc ggggagcccc 60  
 gttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcggag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc ggggtatga ccagtcgcc tacgacggca 360  
 aggtattacat cgccctgaac gaggacctgc gctcctggac cgccgaggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 540  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 540  
 atgtgggtca tggcgcccc aaccgtctc ctgctgtct cgcgggccct ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca cctcgtgtc ccggcccggc 120  
 cgcggggagc ccgcttcat ctcatgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgagagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgaggt ggggcgggac gggcgccctc tccggggca tgaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgccgcg 480  
 gacacggcgg ctcatcac ccagcgcaag tgggaggcgg ccggtgagc ggagcagcgg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcccctg ggtttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtgggtc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagccc tcacctgag atgggagccg 900  
 tcttccagt ccacgtccc catcgtgggc attgttgctg gcctggtgt ctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgtgtg atgtgttaga ggaagagttc aggtgga 1017

<210> 541  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 541  
 gctccactc catgaggtat ttctacacct ccgtgtccc gcccggccgc ggggagcccc 60  
 gttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcggag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240

tgcgcggcta ctacaaccag agcgaaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggtattacat cgccctgaac gaggacctgc gtcctggac cgccgaggac acggcggctc 420  
 agatcaccca ggcgaagtgg gagggggccc gtgaggcgga gcaggacaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtggagc 540  
 gcgcgg 546

<210> 542  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 542  
 gctccactc catgaggtat ttctacacct ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggtattacat cgccctgaac gaggacctgc gtcctggac cgccgaggac acggcggctc 420  
 agatcaccca ggcgaagtgg gagggggccc gtgaggcgga gcaggcgaga gcctacctgg 480  
 agggcctgtg cgtggagtgc ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 543  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 543  
 gctccactc catgaggtat ttctacacct ccgtgtccc gcccggccgc ggggagctcc 60  
 gcttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggtattacat cgccctgaac gaggacctgc gtcctggac cgccgaggac acggcggctc 420  
 agatcaccca ggcgaagtgg gagggggccc gtgaggcgga gcaggcgaga gcctacctgg 480  
 agggcgagtgc cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 544  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 544  
 gctccactc catgaggtat ttctacacct ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggtattacat cgccctgaac gaggacctgc gtcctggac cgccggaac acggcggctc 420  
 agatcaccca ggcgaagtgg gagggggccc gtgaggcgga gcaggcgaga gcctacctgg 480  
 agggcgagtgc cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 545  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 545  
 gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 546  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 546  
 gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 547  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 547  
 gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcaggacaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 548  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 548

gctccactc catgaggtat ttctacacct ccgtgtccc gcccggccgc ggggagcccc 60  
 gttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120  
 cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcctggac cgccgaggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 549  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 549  
 gctccactc catgaggtat ttctacacct ccgtgtccc gcccggccgc ggggagcccc 60  
 gttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120  
 cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctcc aagaccaaca cacagactta ccgagaggac ctgcggaccc 240  
 tgctcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcctggac cgccgaggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 550<211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 550gctccactc catgaggtat ttctacacct ccgtgtccc gcccggccgc ggggagcccc 60  
 gttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120  
 cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcctggac cgccgaggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 551  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 551  
 gctccactc catgaggtat ttctacacct ccgtgtccc gcccggccgc ggggagcccc 60  
 gttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120  
 cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcctggac cgccgaggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagcggaga gcctacctgg 480



agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
gcgctg 546

<210> 552  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 552  
gctccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
gcttcactc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag agaggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180  
accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
tgcgcggtc ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgaggac acggcggctc 420  
agatcaccca gcgaagtgg gaggcgccc gtgagcgga gcagcggaga gcctacctgg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
gcgctg 546

<210> 553  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 553  
gctccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
gcttcactc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag agaggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180  
accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
tgcgcggtc ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgaggac acggcggctc 420  
agatcaccca gcgaagtgg gaggcgccc gtgagcgga gcagcggaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
gcgctg 546

<210> 554  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 554  
atgctggtca tggcgcccc aaccgtcctc ctgctgctct cggcgccct ggcctgacc 60  
gagacctggg ccggtccca ctccatgagg tatttcgaca ccgcatgtc ccggccggc 120  
cgcggggagc ccgcttcat ctagtgggc tacgtggagc acagcagtt cgtgaggtc 180  
gacagcgagc ccgagagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
ccgaggtatt gggaccggaa cacacagatc ttaagacca acacacagac tgaccgagag 300  
agcctgcgga acctgcgag ctactacaac cagagcgagg ccgggtctca caccctccag 360  
agcatgtacg gctgcgagc gggcgccgac gggcgccctc tccgcgggca taaccagtac 420  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctctg gaccgcggcg 480  
gacaccgagg ctacatcac ccagcgcaag tgggaggcgg ccgctgtggc ggagcaggac 540  
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
gacacgtgg agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
catgaggcca cctgaggtg ctggccctg ggcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 555  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 555  
 atgtctggta tggcgccccg aaccgtctc ctgctgctt cgcgggccct ggccctgacc 60  
 gagacctggg ccggctccca ctccatgagg tatttcgaca ccgcatgtc ccggcccggc 120  
 cgcggggagc ccgcttcat ctactgggc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccgga cacacagatc ttcaagacca acacacagac tgaccgagag 300  
 aacctgcga ccgcgctccg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgacgt ggggcccggc gggcgctcc tccgcgga taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgcggcg 480  
 gacaccgagg ctacatcac ccagcgcaag tgggaggcgg ccgtgtggc ggagcaggac 540  
 agagcctacc tggaggcgac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gacacgtgag agcgcggga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgagggtg ctgggcccgt ggcttctacc ctgcggagat cacttgacc 720  
 tggcagcggg atggcgagga ccaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cctccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 556  
 <211> 526  
 <212> DNA  
 <213> Homo sapiens

<400> 556  
 ttcgacaccg ccatgtcccg gccggggcgc ggggagcccc gttcatctc agtgggctac 60  
 gtggacgaca cgcagttcgt gaggttcgac agcgacgcc cgagtcgag agaggagccg 120  
 cggcgccgt gtagagagca ggagggggcg gagtattggg accggaacac acagatcttc 180  
 aagaccaaca cacagacta ccgagagaac ctgcggatcg cgtccgcta ctacaaccag 240  
 agcaggccg ggtctcacac cctccagagc atgtacggct gcgacgtggg gccggacggg 300  
 cgctctctcc ggggcataa ccagtacgcc tacgacggca aggattacat cgcctgaac 360  
 gaggacctgc gctctggac cgcggcgga accgcggctc agatcaccca gcgaagtgg 420  
 gaggcgcccc gtgtggcgga gcaggacaga gctacctgg agggcacgtg cgtggagtgg 480  
 ctccgcagat acctggagaa cggaaggac acgctggagc gcgcgg 526

<210> 557  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 557  
 gctcccactc catgaggtat ttcgacaccg ccatgtcccg gccggggcgc ggggagcccc 60  
 gttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag agaggagccg cggcgccgt gtagagagca ggagggggcg gagtattggg 180  
 accggaacac acagatctcc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc ggggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctctggac cgcggcgga accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgctggagc 540  
gcgcgg 546

<210> 558  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 558  
gctccactc catgaggtat ttgacaccg ccatgtccc gcccgccgc ggggagcccc 60  
gcttcattc agtgggttac gtggacgaca cgagttcgt gaggttcgac agcgacgcc 120  
cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
accggaacac acagacctc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggc 300  
gcgacgtggg gccggacggg cgctctcc gccggcataa ccagtacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgctggagc 540  
gcgcgg 546

<210> 559  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 559  
gctccactc catgaggtat ttgacaccg ccatgtccc gcccgccgc ggggagcccc 60  
gcttcattc agtgggttac gtggacgaca cgagttcgt gaggttcgac agcgacgcc 120  
cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
accggaacac acagatctc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggc 300  
gcgacgtggg gccggacggg cgctctcc gccggcataa ccagtacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgctggagc 540  
gcgcgg 546

<210> 560  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 560  
gctccactc catgaggtat ttgacaccg ccatgtccc gcccgccgc ggggagcccc 60  
gcttcattc agtgggttac gtggacgaca cgagttcgt gaggttcgac agcgacgcc 120  
cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
accggaacac acagatctc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggc 300  
gcgacgtggg gccggacggg cgctctcc gccggcataa ccagtacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgctggagc 540  
gcgcgg 546

<210> 561

<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 561  
gctccactc catgaggtat ttcgacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcactc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gaggattggg 180  
accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcaggacaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
gcgcgg 546

<210> 562  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 562  
gctccactc catgaggtat ttcgacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcactc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gaggattggg 180  
accgggacac acagatcttc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcaggacaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
gcgcgg 546

<210> 563  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 563  
gctccactc catgaggtat ttcgacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcactc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gaggattggg 180  
accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcaggacaga gcctacctgg 480  
agggcgctg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
gcgcgg 546

<210> 564  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 564  
gctccactc catgaggtat ttcgacaccg ccatgtcccg gcccgccgc ggggagcccc 60

gcttcacatc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac acgctggagc 540  
 gcgcgg 546

<210> 565  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 565  
 gctccacac catgaggtat ttgacaccg ccatgtccc gcccgccgc ggggagcccc 60  
 gcttcacatc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac acgctggagc 540  
 gcgcgg 546

<210> 566  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 566  
 gctccacac catgaggtat ttgacaccg ccatgtccc gcccgccgc ggggagcccc 60  
 gcttcacatc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgcctcctcc gcgggtacca ccaggacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac acgctggagc 540  
 gcgcgg 546

<210> 567  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 567  
 gctccacac catgaggtat ttgacaccg ccatgtccc gcccgccgc ggggagcccc 60  
 gcttcacatc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactga ccgagtggc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gtcctggac cgcggcggac accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
 gcgcgg 546

<210> 568  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 568  
 gctccactc catgaggtat ttgcacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacaggctga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgcctctcc cggggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
 gcgcgg 546

<210> 569  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 569  
 gctccactc catgaggtat ttgcacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactga ccgagagaac ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgcctctcc cggggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
 gcgcggaccc ccaaagaca cacgtgaccc accacccat ctctgacct gaggccaccc 600  
 tgaggtgctg ggcctgggc ttctacctg cggagatcac actgacctgg cagcgggatg 660  
 gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga gatagaacct 720  
 tccagaagtg ggcagctgtg gtgtgcctt ctggagaaga gcagagatac acatgccatg 780  
 tacagcatga ggggctgccg aagccctca cctgagatg gg 822

<210> 570  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 570atgcgggtca cggcgccccg aaccctctc ctgctgctt ggggggcagt ggcctgacc 60  
 gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc ccggcccgcc 120  
 cgcggggagc cccgcttcat caccgtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccacgagtcc gaggatggcg cccggggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 aacctgcgca ccgcgtccc ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggtgtatg gctcgcacct ggggccggac gggcgctcc tccgcgga taaccagtta 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgagg ctcatcac ccagctcaag tgggagggcg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccga gatactgga gaacgggaag 600

gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc catctctgac 660  
catgaggcca ccttgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
tcttccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
gtggtcatcg gagctgtggt cgctgctgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 571

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 571

atcggggtca cggcgccccg aacctctc ctgctgctct ggggggcagt ggccctgacc 60  
gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
cgcggggagc ccgcttcat caccgtgggc tacgtggacg acaccagtt cgtgaggttc 180  
gacagcgacg ccacgagtc gaggatggcg ccccgggcgc catggataga gcaggagggg 240  
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
aacctgcgca ccgcgtccg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
acgatgtatg gctgcgacct ggggccggac gggcgctcc tccgcgggca taaccagtta 420  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
gacaccgagg ctacatcac ccagctcaag tgggaggcgg ccggtgtggc ggagcagctg 540  
agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc catctctgac 660  
catgaggcca ccttgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
tcttccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
gtggtcatcg gagctgtggt cgctgctgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 572

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 572

atcggggtca cggcgccccg aacctctc ctgctgctct ggggggcagt ggccctgacc 60  
gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
cgcggggagc ccgcttcat caccgtgggc tacgtggacg acaccagtt cgtgaggttc 180  
gacagcgacg ccacgagtc gaggatggcg ccccgggcgc catggataga gcaggagggg 240  
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
aacctgcgca ccgcgtccg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
acgatgtatg gctgcgacct ggggccggac gggcgctcc tccgcgggca taaccagtta 420  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
gacaccgagg ctacatcac ccagcgcaag tgggaggcgg ccggtgtggc ggagcagctg 540  
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc catctctgac 660  
catgaggcca ccttgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
tcttccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
gtggtcatcg gagctgtggt cgctgctgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 573

<211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 573  
 atgcgggtca cggcgccccg aaccctctc ctgtgtctt ggggggcagt ggccctgacc 60  
 gagacctggg cgggtccca ctccatgagg tattttctaca ccgcatgtc ccggcccggc 120  
 cgcgggggagc ccgcttcat caccgtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccacgagtc gaggatggcg cccggggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 aacctgcga ccgcgtccg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 acgatgtatg gctgcgacct ggggccggac gggcgctcc tccgcgggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcgcg 480  
 gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccga gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtgtgc ctctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccaagcccc tcacctgag atgggagcca 900  
 tcttcccaat ccacgtccc catcgtggc attgtgtgct gctgggtgt cctagcagtt 960  
 gtggtcatcg gagctgtgt cgtgtgtg atgttagga ggaagagctc aggtgga 1017

<210> 574  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 574  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacac cgtgggttac gtggacgaca ccagttcgt gaggttcgac agcgacgcca 120  
 cgagtcgag gatggcggc cggcgccat ggatagagca ggagggccg gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
 cgtccgcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtatggct 300  
 gcgacctggg gccggacggg gcctctctc gggggcataa ccagttagcc tacgacggca 360  
 aggattacat gcctgaac gaggaacctg gctctggac cggcgcgac acccgggctc 420  
 agatcaccca gctcaagtgg gagggcgccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgagat acctggagaa cgggaaggag acgtgcagc 540  
 gcgagg 546

<210> 575  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 575  
 atgcgggtca cggcgccccg aaccctctc ctgtgtctt ggggggcagt ggccctgacc 60  
 gagacctggg cgggtccca ctccatgagg tattttctaca ccgcatgtc ccggcccggc 120  
 cgcgggggagc ccgcttcat caccgtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccacgagtc gaggatggcg cccggggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 aacctgcga ccgcgtccg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 acgatgtatg gctgcgacct ggggccggac gggcgctcc tccgcgggca taaccagtta 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcgcg 480  
 gacaccgagg ctcatatcac ccagctcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctgcc tggagggcga gtgcgtggag tggctccga gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720



tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccgtccc catcggtggc attgttctg gcctggctgt ctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgt atgtgttaga ggaagagctc aggtgga 1017

<210> 576  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 576  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacctggg gccggacggg cgctcctcc gcgggcataa ccagttagcc tacgacggca 360  
 aggattacat gcacctgaac gaggacctga gtcctggac gcggcgga acccgggctc 420  
 agatcaccca gtcgaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 577  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 577  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaa ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacctggg gccggacggg cgctcctcc gcgggtatga ccagtcgcc tacgacggca 360  
 aggattacat gcacctgaac gaggacctga gtcctggac gcggcgga acccgggctc 420  
 agatcaccca gtcgaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 578  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 578  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaa ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacctggg gccggacggg cgctcctcc gcgggcataa ccagttagcc tacgacggca 360  
 aggattacat gcacctgaac gaggacctga gtcctggac gcggcgga acccgggctc 420  
 agatcaccca gtcgaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcggaccc ccaaaagaca cagtgaccc accacccat ctctgacct gaggccacc 600  
 tgaggtgctg ggccctgggc ttctaccctg cggagatcac actgacctg cagcgggatg 660

gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga gatagaacct 720  
 tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac acatgccatg 780  
 tacagcatga ggggctgccg aagccccca ccctgagatg gg 822

<210> 579  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 579  
 atgctggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct ggcctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca cctccgtgtc ccggcccggc 120  
 cgcggggagc ccgcttcat ctgagtggtc tacgtggacg acacgcagtt cgtgagggtc 180  
 gagacgcagc ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac tgaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 tggatgtatg gctgcgacgt ggggcccggc gggcgccctc tccgcggtta taaccagttc 420  
 gcctacgacg gcaaggatta catgcctctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgaggg ggagcagctg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gacacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcccct ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagacagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagtt ccaccgtccc catctggtgc attgtgtctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgttagga ggaagagttc aggtgga 1017

<210> 580  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 580  
 atgctggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct ggcctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgctgtgtc ccggcccggc 120  
 cgcggggagc ccgcttcat ctgagtggtc tacgtggacg acacgcagtt cgtgagggtc 180  
 gagacgcagc ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac tgaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 tggatgtatg gctgcgacgt ggggcccggc gggcgccctc tccgcggtta taaccagttc 420  
 gcctacgacg gcaaggatta catgcctctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgaggg ggagcagctg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gacacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcccct ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagacagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagtt ccaccgtccc catctggtgc attgtgtctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgttagga ggaagagttc aggtgga 1017

<210> 581  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 581

```

gctccactc catgaggtat ttctacaccg ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcatctc agtgggctac gtggacgaca cgagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gaattattggg 180
accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg atgtatggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggtataa ccagttcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac acccgggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagcggaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540
gcgcggaccc cccaaagaca catgtgacct accaccccat ctctgacct gaggccacc 600
tgaggtgctg ggccctgggc ttctacctg cggagatcac actgacctg cagcgggatg 660
gcgaggacca aactcaggac accgagctg tgagaccag accagcagga gacagaacct 720
tccagaagtg gccagctgtg gtggtgcctt ctggagaaga gcagagatac acatgccatg 780
tacagcatga ggggctgccg aagccctca cctgagatg gg 822

```

&lt;210&gt; 582

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 582

```

gctccactc catgagcat ttctacaccg ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcatctc agtgggctac gtggacgaca cgagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gaattattggg 180
accggaacac acagaactgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg atgtatggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggtataa ccagttcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac acccgggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

&lt;210&gt; 583

&lt;211&gt; 619

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 583

```

atgtgtgta tggcgccccg aaccgtctc ctgtgtctc cggcgccct ggccctgacc 60
gagacctggg ccggtccca ctccatgagg tatttctaca ccgctgtc ccggcccgcc 120
cggggggagc cccgttcat ctgagggc tacgtggacg acacgcagt cgtgaggtc 180
gacagcgacg ccgcgagtc gagagaggag ccgcggcgcg cgtggataga gcaggaggg 240
ccggaatatt gggaccggaa cacacagac tgcaagccacacagac tgaccgagag 300
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctcag 360
agcatgtacg gctgcgact ggggcccggac gggcgctcc tccgcggtta taaccagtc 420
gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctcctg gaccgcggcg 480
gacaccggg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540
agagcctacc tggagggcac gtgcgtggag tggctccga gacacctgga gaacgggaag 600
gagacgtgc agcgcgcg 619

```

&lt;210&gt; 584

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 584

```

gtccccactc catgaggtat ttctacaccg cegtgtcccc gcccgccgc ggggagcccc 60
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccg cgggcccgt ggatagagca ggaggggccc gaattattggg 180
accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggtataa ccagttcgcc tacgacggca 360
aggattacat gcacctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

```

<210> 585  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 585
gtccccactc catgaggtat ttctacaccg cegtgtcccc gcccgccgc ggggagcccc 60
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccg cgggcccgt ggatagagca ggaggggccc gaattattggg 180
accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtatggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggtataa ccagttcgcc tacgacggca 360
aggattacat gcacctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

```

<210> 586  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

```

<400> 586
atgcgggtca cggcccccg aaccgtctc ctgtgtctc cgggagccct ggccctgacc 60
gagacctggg ccggtccca ctccatgagg tattttctaca ccgcatgtc ccggccggc 120
cgcggggagc ccgcttcat cgcagtggc tacgtggac acaccagtt cgtgaggtc 180
gacagcgacg ccgcgagtc gaggatggc cccggggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagat tccaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca tgaccagtcc 420
gctacgacg gcaaggatta catgcacctg aacgaggacc tgagctctg gaccgcggcg 480
gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg ccggtgagc ggagcagtgg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatactgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgaggtg ctgggcccgt ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa ctttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900
tcttccagc ccacctccc catcgtggc attgttctg gctggctgt cctagcagtt 960
gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

```

<210> 587  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 587

```

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120
cgagtcgag gatggcgccc cggcgccat gtagagca ggaggggccc gattattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg gcctctcc gcggcatga ccagtcgcc tacgacggca 360
aagattacat cgccctgaac gaggacctga gtcctggac cgcggcggac acggcggtc 420
agatcaccca gcgcaagtgg gaggcgccc gtgaggcgga gcagtgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540
gcgcgg 546

```

&lt;210&gt; 588

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 588

```

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120
cgagtcgag gatggcgccc cggcgccat gtagagca ggaggggccc gattattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg gcctctcc gcggcatga ccagtcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gtcctggac cgcggcggac acggcggtc 420
agatcaccca gcgcaagtgg gaggcgccc gtgaggcgga gcagtgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540
gcgcgg 546

```

&lt;210&gt; 589

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 589

```

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca ccagttcgt gcggttcgac agcgacgcc 120
cgagtcgag gatggcgccc cggcgccat gtagagca ggaggggccc gattattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg gcctctcc gcggcatga ccagtcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gtcctggac cgcggcggac acggcggtc 420
agatcaccca gcgcaagtgg gaggcgccc gtgaggcgga gcagtgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540
gcgcgg 546

```

&lt;210&gt; 590

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 590

```

atgcgggtca cggcgcccc aaccgtctc ctgctgctt cgggagccct ggcctgacc 60
gagacctggg ccggtccca ctccatgagg ttttttaca ccgcatgtc ccggcccgcc 120
cgcggggagc ccgcttcat cgcagtggc tacgtggac acaccagt cgtgaggtc 180
gacagcgag ccgaggtcc gaggatggc cccggggcg catggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacagatc tccaagacca acacagagac ttaccgagag 300

```

```

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca catcatccag 360
aggatgtatg gctgcgacgt ggggccggac gggcgccctc tccgcgggta tgaccagtcc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagtcctg gaccgcggcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccc aaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900
tcttccagt ccaccatccc catcgtgggc attgtgtg gcttggtgt cctagcagtt 960
gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

```

<210> 591  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

```

<400> 591
atcggggtca cgcgccccc aaccgtctc ctgctgctct cgggagccct ggccctgacc 60
gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120
cgcggggagc cccgcttcat ctcatgggc tacgtggacg acacgcagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca tgaccagtcc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagtcctg gaccgcggcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccc aaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900
tcttccagt ccaccatccc catcgtgggc attgtgtg gcttggtgt cctagcagtt 960
gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

```

<210> 592  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

```

<400> 592
atcggggtca cgcgccccc aaccgtctc ctgctgctct cgggagccct ggccctgacc 60
gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120
cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gaggatggcg cccggggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca cacttggcag 360
acgatgtatg gctgcgacgt ggggccggac gggcgccctc tccgcgggca tgaccagtcc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagtcctg gaccgcggcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccc aaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900

```

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960  
gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 593  
<211> 945  
<212> DNA  
<213> Homo sapiens

<400> 593  
ggctcccact ccatgaggta ttctacacc gccatgtccc ggcccggccg cggggagccc 60  
cgcttcatcg cagtgggcta cgtggacgac acccagttcg tgaggttcga cagcgacgcc 120  
gcgagtcga ggatggcgcc cggggcgcca tggatagagc aggaggggcc ggagtattgg 180  
gaccgggaga cacagatctc caagaccaac acacagactt accgagagag cctgcggaac 240  
ctgcgcggct actacaacca gagcgaggcc gggtctcaca cctccagag gatgtacggc 300  
tgcgacgtgg ggccggacgg gcgcctctc cgcgggcatg accagtccgc ctacgacggc 360  
aaggattaca tcgccctgaa cgaggacctg agctcctgga ccgcgcgga cagggcggt 420  
cagatcacc agcgcaagtg ggagggcgcc cgtgtggcgg agcagctgag agcctacctg 480  
gagggcctgt gcgtggagtg gctccgaga tacctggaga acgggaagga gacgtgcag 540  
cgcgcggaacc cccaaagac acatgtgacc caccaccca tctctgacca tgaggccacc 600  
ctgaggtgct gggccctggg cttctaccct gcggagatca cactgacctg gcagcggtat 660  
ggcgaggacc aaactcagga caccgagctt gtggagacca gaccagcagg agatagaacc 720  
ttccagaagt gggcagctgt ggtggtgcct tctggagaag agcagagata cacatgcat 780  
gtacagcatg aggggctgcc gaagccctc accctgagat gggagccatc ttcccagtc 840  
accatcccca tcgtgggcat tgttctggc ctggtctgcc tagcagttgt ggtcatcgga 900  
gctgtggtcg ctactgtgat gttaggagg aagagctcag gtgga 945

<210> 594  
<211> 945  
<212> DNA  
<213> Homo sapiens

<400> 594  
ggctcccact ccatgaggta ttctacacc gccatgtccc ggcccggccg cggggagccc 60  
cgcttcatcg cagtgggcta cgtggacgac acccagttcg tgaggttcga cagcgacgcc 120  
gcgagtcga ggatggcgcc cggggcgcca tggatagagc aggaggggcc ggagtattgg 180  
gaccgggaga cacagatctc caagaccaac acacagactt accgagagag cctgcggaac 240  
ctgcgcggct actacaacca gagcgaggcc gggtctcaca cctccagag gatgtttggc 300  
tgcgacgtgg ggccggacgg gcgcctctc cgcgggcatg accagtccgc ctacgacggc 360  
aaggattaca tcgccctgaa cgaggacctg agctcctgga ccgcgcgga cagggcggt 420  
cagatcacc agcgcaagtg ggagggcgcc cgtgaggcgg agcagctgag agcctacctg 480  
gagggcctgt gcgtggagtg gctccgaga tacctggaga acgggaagga gacgtgcag 540  
cgcgcggaacc cccaaagac acatgtgacc caccaccca tctctgacca tgaggccacc 600  
ctgaggtgct gggccctggg cttctaccct gcggagatca cactgacctg gcagcggtat 660  
ggcgaggacc aaactcagga caccgagctt gtggagacca gaccagcagg agatagaacc 720  
ttccagaagt gggcagctgt ggtggtgcct tctggagaag agcagagata cacatgcat 780  
gtacagcatg aggggctgcc gaagccctc accctgagat gggagccatc ttcccagtc 840  
accatcccca tcgtgggcat tgttctggc ctggtctgcc tagcagttgt ggtcatcgga 900  
gctgtggtcg ctactgtgat gttaggagg aagagctcag gtgga 945

<210> 595  
<211> 945  
<212> DNA  
<213> Homo sapiens

<400> 595  
ggctcccact ccatgaggta ttctacacc gccatgtccc ggcccggccg cggggagccc 60  
cgcttcatcg cagtgggcta cgtggacgac acccagttcg tgaggttcga cagcgacgcc 120

gcgagtccga ggatggcgcc ccgggcgcca tggatagagc aggaggggcc ggagtattgg 180  
gaccgggaga cacagatctc caagaccaac acacagactt accgagagag cctgcggaac 240  
ctgcgcggct actacaacca gagcgaggcc ggggtctaca cctccagag catgtacggc 300  
tgcgacgtgg ggccggacgg gcgcctctc cgcgggcatg accagtccgc ctacgacggc 360  
aaggattaca tcgccctgaa cgaggacctg agctcctgga ccgcggcgga cacggcggct 420  
cagatcacc agcgcaagtg ggaggcgcc cgtgaggcgg agcagtggag agcctacctg 480  
gaggcgctgt gctgggagtg gctccgaga tacctggaga acgggaagga gacgctgcag 540  
cgcgcggacc ccccaaagac acatgtgacc caccaccca tctctgacca tgaggccacc 600  
ctgaggtgct gggccctggg cttctacct cgggagatca cactgacctg gcagcgggat 660  
ggcgaggacc aaactcagga caccgagctt gtggagacca gaccagcagg agatagaacc 720  
ttccagaagt gggcagctgt ggtggtgcct tctggagaag agcagagata cacatgcat 780  
gtacagcatg aggggctgcc gaagccctc accctgagat gggagccatc tcccagtc 840  
accatccca tcgtgggcat tgttctggc ctggtgtcc tagcagttgt ggtcatcgga 900  
gctgtgtcg ctactgtat gttaggagg aagagtcag gtgga 945

<210> 596  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 596  
atgcgggtca cggcgcccc aaccgtctc ctgtgtctt cgggagccct ggccctgacc 60  
gagacctggg ccggctccca ctccatgagg tatttttaca ccgcatgtc ccggcccggc 120  
cgcggggagc ccgccttcat cgcagtggc tacgtggacg acaccagtt cgtgaggttc 180  
gacagcgacg ccgcgagtc gaggatggc cccggggcg catgtagata gcaggagggg 240  
ccggagtatt gggaccgga cacacagatc ttaagacca acacacagac ttaccgagag 300  
agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
aggatgtacg gctgcgacgt ggggcccggac gggcgctcc tccgcgggca tgaccagtcc 420  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
gacacggcgg ctacagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtgg 540  
agagcctacc tggagggcct gtgcgtggag tggctccga gatacctgga gaacgggaag 600  
gagacgctgc agcgcgcgga ccccccag acacatgtga cccaccacc catctctgac 660  
catgaggcca cctgagggtg ctgggcccctg ggcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
tcttccagc ccaccatccc catcgtggc attgtgtgt gcctggctgt ctagcagtt 960  
gtggtcatcg gagctgtgt cgtactgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 597  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 597  
atgcgggtca cggcgcccc aaccgtctc ctgtgtctt cgggagccct ggccctgacc 60  
gagacctggg ccggctccca ctccatgagg tatttttaca ccgcatgtc ccggcccggc 120  
cgcggggagc ccgccttcat ctcagtggc tacgtggacg acacgagtt cgtgaggttc 180  
gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtgtagata gcaggagggg 240  
ccggagtatt gggaccgga cacacagatc tgcaagacca acacacagac ttaccgagag 300  
agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
aggatgtacg gctgcgacgt ggggcccggac gggcgctcc tccgcgggca taaccagtac 420  
gcctacgacg gcaagatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
gacacggcgg ctacagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtgt 540  
agagcctacc tggagggcct gtgcgtggag tggctccga gatacctgga gaacgggaag 600  
gagacgctgc agcgcgcgga ccccccag acacatgtga cccaccacc catctctgac 660  
catgaggcca cctgagggtg ctgggcccctg ggcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780



ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 598  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 598  
 atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
 cgcggggagc ccgcttcat ctcatgtggc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc tgcaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca tgaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacacggcgg ctcatgtcac ccagcgcaag tgggaggcgg ccggtgaggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgctgc agcgcggga cccccaaag acacatgtga ccaccaccc catctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 599  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 599  
 atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
 cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggatggcg ccccgggcg catggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc tacaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacacggcgg ctcatgtcac ccagcgcaag tgggaggcgg ccggtgaggc ggagcagtg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgctgc agcgcggga cccccaaag acacatgtga ccaccaccc catctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 600  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 600

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc	60
gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg	120
cgagtccgag gatggctccc cgggcgccat ggatagagca ggaggggccg gagtattggg	180
accggaacac acagatctac aagaccaaca cacagactta ccgagagagc ctgcggaacc	240
tgccgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct	300
gcgacgtggg gccggacggg cgcctctcc cggggcatga ccagtccgcc tacgacggca	360
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac acggcggctc	420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg	480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc	540
gcgcgg	546

&lt;210&gt; 601

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 601

atgcgggtca cggcgccccg aaccgtctc ctgctgtct cgggagccct ggccctgacc	60
gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc	120
cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc	180
gacagcgacg ccgcagtc caggatggcg ccccgggcgc catggataga gcaggagggg	240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag	300
agcctgcgga acctgcgagg ctactacaac cagagcgagg cggggtctca caccctccag	360
aggatgtacg gctgcgacgt ggggcgggac gggcgctcc tccgcgggca tgaccagtcc	420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctctg gaccgcggcg	480
gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtgg	540
agagcctacc tggagggcct gtgcgtggac gggctccgca gatacctgga gaacgggaag	600
gagacgtgc agcgcgga cccccaaag acacatgtga cccaccacc catctctgac	660
catgaggcca cctgaggtg ctgggcccctg ggcttctacc ctgcggagat cacactgacc	720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca	780
ggagatagaa cttccagaa gtgggcagct gtgtggtgc cttctggaga agagcagaga	840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca	900
tttccagc caccatccc catgtgggc attgttctg gcctggctgt cctagcagtt	960
gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga	1017

&lt;210&gt; 602

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 602

atgcgggtca cggcgccccg aaccgtctc ctgctgtct cgggagccct ggccctgacc	60
gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc	120
cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc	180
gacagcgacg ccgcagtc caggatggcg ccccgggcgc catggataga gcaggagggg	240
ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac ttaccgagag	300
aacctgcgga tcgcgtccg ctactacaac cagagcgagg cggggtctca catatccag	360
aggatgtatg gctgcgacgt ggggcgggac gggcgctcc tccgcgggta tgaccagtcc	420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctctg gaccgcggcg	480
gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtgc	540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag	600
gagacgtgc agcgcgga cccccaaag acacatgtga cccaccacc catctctgac	660
catgaggcca cctgaggtg ctgggcccctg ggcttctacc ctgcggagat cacactgacc	720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca	780
ggagatagaa cttccagaa gtgggcagct gtgtggtgc cttctggaga agagcagaga	840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca	900

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 603  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 603  
 atgcggttca cggcgccccg aaccgtcttc ctgctgctct cgggagccct ggccctgacc 60  
 gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
 cgcggggagc cccgcttcat cgagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgagagtc gaggatggcg ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggcccggc gggcgctcc tccggggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacacggcgg ctcatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtgg 540  
 agagcctacc tggagggcct gtgctggag tgcctccgca gatactgga gaacgggaag 600  
 gagacgtcg agcgcgcgga cccccaaag acacatgtga ccaccaccc catctctgac 660  
 catgaggcca cctgagggtg ctgggcccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtgtgct cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttcccagt ccaccatccc catcgtgggc attgttgctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 604  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 604  
 atgcggttca cggcgccccg aaccgtcttc ctgctgctct cgggagccct ggccctgacc 60  
 gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
 cgcggggagc cccgcttcat cgagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgagagtc gaggatggcg ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggcccggc gggcgctcc tccggggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacacggcgg ctcatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtgg 540  
 agagcctacc tggagggcct gtgctggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtcg agcgcgcgga cccccaaag acacatgtga ccaccaccc catctctgac 660  
 catgaggcca cctgagggtg ctgggcccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtgtgct cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttcccagt ccaccatccc catcgtgggc attgttgctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 605  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 605

```

atgcgggtca cggcgccccg aaccgtctc ctgctgctct cgggagccct ggccctgacc 60
gagacctggg cgggtccca ctcatgagg tatttctaca cggcatgtc cggcccggc 120
cggggggagc cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gaggatggcg cccggggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacggaac atgaaggcct ccgcgcagac ttaccgagag 300
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca cacttggcag 360
aggatgtatg gtgcgacct ggggcccggc gggcgccctc tccgcgggca tgaccagtcc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatactgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgaggtg ctgggcccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag atgggagcca 900
tcttccagt ccaccatccc catcgtgggc attgttgctg gcttggtgt cctagcagtt 960
gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagtc aggtgga 1017

```

<210> 606  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

```

<400> 606
atgcgggtca cggcgccccg aaccgtctc ctgctgctct cgggagccct ggccctgacc 60
gagacctggg cgggtccca ctcatgagg tatttctaca cggcatgtc cggcccggc 120
cggggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gaggatggcg cccggggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacggaac atgaaggcct ccgcgcagac ttaccgagag 300
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca caccctcag 360
aggatgtacg gctgcgacgt ggggcccggc gggcgccctc tccgcgggta ccaccaggac 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatactgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgaggtg ctgggcccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag atgggagcca 900
tcttccagt ccaccatccc catcgtgggc attgttgctg gcttggtgt cctagcagtt 960
gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagtc aggtgga 1017

```

<210> 607  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

```

<400> 607
atgcgggtca cggcgccccg aaccgtctc ctgctgctct cgggagccct ggccctgacc 60
gagacctggg cgggtccca ctcatgagg tatttctaca cggcatgtc cggcccggc 120
cggggggagc cccgttcat ctcatgagg tacgtggacg acacgcagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccggga cacaagatc tgcaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctcag 360
aggatgtacg gctgcgacgt ggggcccggc gggcgccctc tccgcgggca tgaccagtcc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatactgga gaacgggaag 600

```

gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgaggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtgtgtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg cgaagcccc tcacctgag atgggagcca 900  
 tcttccagc ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtgtcatcg gagctgtgtg cgctactgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 608  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 608  
 atgcggtca cggcgccccg aaccgtcctc ctgtgtctct cgggagccct ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
 cgcgggggagc ccgcttcat cgcagtgggc tacttgagc acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggatggcg ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tcaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggcccggc gggcgccctc tccgcgggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacacggcgg ctacatcac ccagcgcaag tgggaggcgg ccggtgaggc ggagcagtgg 540  
 agagcctacc tggagggcct gtgcgtggac gggctccgca gatactgga gaacgggaag 600  
 gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgaggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtgtgtgtgc tttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg cgaagcccc tcacctgag atgggagcca 900  
 tcttccagc ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtgtcatcg gagctgtgtg cgctactgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 609  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 609  
 atgcggtca cggcgccccg aaccgtcctc ctgtgtctct cgggagccct ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
 cgcgggggagc ccgcttcat cgcagtgggc tacttgagc acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggatggcg ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tcaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacct ggggcccggc gggcgccctc tccgcgggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacacggcgg ctacatcac ccagcgcaag tgggaggcgg ccggtgtggc ggagcagtgc 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccacc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgaggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtgtgtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg cgaagcccc tcacctgag atgggagcca 900  
 tcttccagc ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtgtcatcg gagctgtgtg cgctactgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 610

<211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 610

```

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct ggcctgacc    60
gagacctggg ccggtcccca ctccatgagg tatttttaca ccgcatgtc ccggcccggc    120
cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc    180
gacagcgacg ccgcgagtcg gaggatggcg ccccgggcgc catggataga gcaggagggg    240
ccggagtatt gggaccggaa cacacagatc tgcaagacca acacacagac ttaccgagag    300
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca catcatccag    360
aggatgtatg gctgcgacgt ggggcccggc gggcgccctc tccgagggta tgaccagtcc    420
gcctacgacg gcaaggatta catgccctg aacgaggacc tgagctcctg gaccgcggcg    480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg    540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag    600
gagacgtcgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac    660
catgaggcca cctgagggtg ctgggcccct ggcttctacc ctgcggagat cacactgacc    720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca    780
ggagatagaa cttccagaa gtgggcagct gtgggtggtg cttctggaga agagcagaga    840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca    900
tcttccagat ccaccatccc catcgtgggc attgttgctg gcctggctgt cctagcagtt    960
gtgtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga    1017
  
```

<210> 611  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 611

```

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct ggcctgacc    60
gagacctggg ccggtcccca ctccatgagg tatttttaca ccgcatgtc ccggcccggc    120
cgcgggggagc cccgcttcat ctacgtgggc tacgtggacg acacgcagtt cgtgaggttc    180
gacagcgacg ccgcgagtcg gagagaggag ccgcggggcgc cgtggataga gcaggagggg    240
ccggagtatt gggaccggaa cacacagatc tgcaagacca acacacagac ttaccgagag    300
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca caccctccag    360
aggatgtacg gctgcgacgt ggggcccggc gggcgccctc tccgagggca tgaccagtcc    420
gcctacgacg gcaaggatta catgccctg aacgaggacc tgagctcctg gaccgcggcg    480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg    540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag    600
gagacgtcgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac    660
catgaggcca cctgagggtg ctgggcccct ggcttctacc ctgcggagat cacactgacc    720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca    780
ggagatagaa cttccagaa gtgggcagct gtgggtggtg cttctggaga agagcagaga    840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca    900
tcttccagat ccaccatccc catcgtgggc attgttgctg gcctggctgt cctagcagtt    960
gtgtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga    1017
  
```

<210> 612  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 612

```

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgcg ggggagcccc    60
gcttcacgcg agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg    120
cgagtccgag gatggcgccc cgggcgccat ggatagagca ggagggggcg gagtattggg    180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcggatcg    240
cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct    300
  
```

gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc tacgacggca 360  
 aggtattacat cgcctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 613  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 613  
 atgcgggtca cggcgcccc aaccgtcctc ctgtgtctct cgggagccct ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttttaca ccgcatgtc ccggcccggc 120  
 cgcgggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggatggcg ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacgt ggggcgggac gggcgccctc tccgcgggta tgaccagtcc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccga gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtgtgtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgtgtgtg gcctggctgt cctagcagtt 960  
 gtgtcatcg gagctgtgtg cgctactgtg atgtgttagga ggaagagctc aggtgga 1017

<210> 614  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 614  
 gaggtatttc tacaccgcca tgtcccgcc cggcgggg gagccccgt tcatcgagc 60  
 gggctacgtg gacgacacc agttcgtgag gtccgacagc gacgcgcga gtccgaggat 120  
 ggcgccccgg gcgccatgga tagagcagga ggggcgggag tattgggacc gggagacaca 180  
 gatctccaag accaacacac agacttaccg agagagcctg cggaacctgc gcggctacta 240  
 caaccagagc gaggcgggt ctacaccct ccagaggatg ttgggtgcg acgtggggcc 300  
 ggacggggcg ctctccgcg gccatgacca gtccgctac gacggcaagg attacatcg 360  
 cctgaacgag gacctgagct cctggaccgc ggcggacagc gcggctcaga tcaccagcg 420  
 caagtgggag gcggcccggt aggcgggca gtcgggaccc cctggagg gcctgtgcgt 480  
 ggagtggctc cgcagatacc tggagaacgg gaaggagacg ctgcagcgc 529

<210> 615  
 <211> 895  
 <212> DNA  
 <213> Homo sapiens

<400> 615  
 atgcgggtca cggcgcccc aaccgtcctc ctgtgtctct cgggagccct ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttttaca ccgcatgtc ccggcccggc 120  
 cgcgggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggatggcg ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gatacagatc tccaagacca acacacagac ttaccgagag 300

```

agcctgcgga acctgcgcgg ctactacaac cagagcgagg cggggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggcccggac gggcgccctcc tccgcgggca tgaccagtcc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggg ggagcagtgg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cctccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atggg 895

```

<210> 616  
 <211> 895  
 <212> DNA  
 <213> Homo sapiens

```

<400> 616
atgcgggtca cggcgccccg aaccgtcctc ctgctgtctc cgggagccct ggccctgacc 60
gagacctggg ccggtctcca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120
cgcggggagc ccgcttcat ctcagtgggc tacgtggacg acacgcagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccgga cacacagatc ttcaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg cggggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggcccggac gggcgccctcc tccgcgggca tgaccagtcc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggg ggagcagtgg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cctccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atggg 895

```

<210> 617  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

```

<400> 617
gaggtatttc tacaccgcca tgtcccggcc cggccgcggg gagccccgt tcatcgagc 60
gggctacgtg gacgacacc agttcgtgag gttcgacagc gacgccgca gtccgaggat 120
ggcgccccgg gcgcatgga tagagcagga ggggcccggg tattgggacc gggagacaca 180
gatctccaag accaaccac agacttacg agagagcctg cggaacctgc gcggtacta 240
caaccagagc gaggccgggt ctacacacct ccagaggatg tacggctgcg acgtggggcc 300
ggacggggcg ctcctccgc ggcataacca gtacgcctac gacggcaagg attacatgc 360
cctgaacgag gacctgagc cctggaccgc ggcggacacg gcggtcaga tcaccagcg 420
caagtgggag gcggcccgtg aggcggagca gtggagagcc tacctggagg gcctgtgcgt 480
ggagtggctc cgcagatacc tggagaacgg gaaggagacg ctgcagcgc 529

```

<210> 618  
 <211> 533  
 <212> DNA  
 <213> Homo sapiens

```

<400> 618
gaggtatttc tacaccgcca tgtcccggcc cggccgcggg gagccccgt tcatcgagc 60
gggctacgtg gacgacacc agttcgtgag gttcgacagc gacgccgca gtccgaggat 120

```



ggcgccccgg gcgccatgga tagagcagga ggggcccggag tattgggacc ggaacacaca 180  
 gatctccaag accaacacac agacttaccg agagagcctg cggaacctgc gcggctacta 240  
 caaccagagc gaggccgggt ctacaccct ccagaggatg tacggctgcg acgtggggcc 300  
 ggacggggcg ctctccgcg ggtatgacca gtccgcctac gacggcaagg attacatcgc 360  
 cctgaacgag gacctgagct cctggaccgc ggcggacacg gcggctcaga tcaccacgcg 420  
 caagtgggag gcggcccgtg tggcgagca gctgagagcc tacctggagg gcctgtgcgt 480  
 ggagtggctc cgagatacc tggagaacgg gaaggagacg ctgcagcgcg cgg 533

<210> 619  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 619  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gatggcgccc cggcgcccat ggatagagca ggagggggccg gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggtca ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtctggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgccgaggac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 620  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 620  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gatggcgccc cggcgcccat ggatagagca ggagggggccg gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggtca ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcctggac cgccgaggac aaggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 621  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 621  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gatggcgccc cggcgcccat ggatagagca ggagggggccg gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggtca ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgccgaggac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540

gcgcgg

546

&lt;210&gt; 622

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 622

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag gatggcgccc cgggcgcat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagacg atgtacggct 300  
gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtcgcc tacgacggca 360  
aggattacat gcacctgaac gaggacctga gctcctggac cgggcggac acggcggctc 420  
agatcaccca gcgaagtgg gaggcgccc gtgaggcgga gcagtggaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
gcgcgg 546

&lt;210&gt; 623

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 623

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag gatggcgccc cgggcgcat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaa ctgcgcaccg 240  
cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
gcgacgtggg gccggacggg cgcctcctcc gcgggtatga ccagtcgcc tacgacggca 360  
aggattacat gcacctgaac gaggacctga gctcctggac cgggcggac acggcggctc 420  
agatcaccca gcgaagtgg gaggcgccc gtgaggcgga gcagtggaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
gcgcgg 546

&lt;210&gt; 624

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 624

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcactc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag agaggagccg cgggcgcat ggatagagca ggaggggccc gagtattggg 180  
accggaacac acagatctgc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtacgcc tacgacggca 360  
aggattacat gcacctgaac gaggacctga gctcctggac cgggcggac acggcggctc 420  
agatcaccca gcgaagtgg gaggcgccc gtgaggcgga gcagtggaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
gcgcgg 546

&lt;210&gt; 625

&lt;211&gt; 546

&lt;212&gt; DNA

<213> Homo sapiens

<400> 625

```

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctcctcc gggggcatga ccagtcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac acggcggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagtgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 626

<211> 546

<212> DNA

<213> Homo sapiens

<400> 626

```

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctcctcc gggggcatga ccagtcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac acggcggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagtgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 627

<211> 546

<212> DNA

<213> Homo sapiens

<400> 627

```

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctcctcc gggggcatga ccagtcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac acggcggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagtgaga gcctacctgg 480
agggcagatg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 628

<211> 546

<212> DNA

<213> Homo sapiens

<400> 628

```

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180

```

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcggggcta ctacaaccag agcggggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacctggg gccggacggg cgctctctcc gcgggcataa ccagttagcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagtgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 629  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 629  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gccgggccgc ggggagcccc 60  
 gttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gatggcgccc cgggcgccat ggatagagca ggagggggccg gattattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagaggac ctgcggaccc 240  
 tgcctcgta ctacaaccag agcggagccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggtc 420  
 agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagtgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 630  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 630  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gccgggccgc ggggagcccc 60  
 gttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gatggcgccc cgggcgccat ggatagagca ggagggggccg gattattggg 180  
 accggaacac acagatctgc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcggagccg ggtctcacat catccagagg atgtatggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggtc 420  
 agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagtgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 631  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 631  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gccgggccgc ggggagcccc 60  
 gttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gatggcgccc cgggcgccat ggatagagca ggagggggccg gattattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcggagccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggtc 420  
 agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagtgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540

gcgcgg

546

&lt;210&gt; 632

&lt;211&gt; 619

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 632

atgcgggtca cggcgccccg aaccgtctc ctgctgctct cgggagccct ggccctgacc 60  
gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
cgcggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240  
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
aggatgtacg gctgcgacgt ggggcccggc gggcgccctc tccgcccggc tgaccagtcc 420  
gctacgacg gcaaggatta catgccctg aacgaggacc tgagtcctg gaccgcccgc 480  
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtgg 540  
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
gagacgctgc agcgcgagg 619

&lt;210&gt; 633

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 633

gctccactc catgaggtat ttctacaccg ccatgtccc gcccggccgc ggggagcccc 60  
gcttcactc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
cgagtcgag agaggagccg cggcgccgt ggatagagca ggaggggccg gattattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgccgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgcctctcc gcgggcatga ccagtcgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcccgtc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcgga gaacctctgg 480  
agggcgagtg cgtggagtgg ctccgagat acctggagaa cgggaaggag acgtgcagc 540  
gcgcgg 546

&lt;210&gt; 634

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 634

gctccactc catgaggtat ttctacaccg ccatgtccc gcccggccgc ggggagcccc 60  
gcttcactc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtcgag gatggcggc cggcgccat ggatagagca ggaggggccg gattattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgccgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgcctctcc gcgggcataa ccagtcgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcccgtc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga acctacctgg 480  
agggcctgtg cgtggagtgg ctccgagat acctggagaa cgggaaggag acgtgcagc 540  
gcgcgg 546

&lt;210&gt; 635

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 635

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcactc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag agaggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacggactta ccgagagagc ctgcggaacc 240  
tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgcctctcc gcggcatga ccagtccgc tacgacggca 360  
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcgcgg 546

&lt;210&gt; 636

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 636

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcactc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag gatggcggc cggcgccat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgcctctcc gcggcatga ccagtccgc tacgacggca 360  
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcgcgg 546

&lt;210&gt; 637

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 637

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcactc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag agaggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180  
accggaacac acagatctgc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgcctctcc gcggcatga ccagtccgc tacgacggca 360  
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcgcgg 546

&lt;210&gt; 638

&lt;211&gt; 619

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 638

atgcgggtca cggcgcccc aaccgtctc ctgtctct cgggagccct ggccctgacc 60  
gagacctggg ccggctcca ctccatgagg tattttaca ccgcatgtc ccggcccggc 120

```

cgcggggagc cccgcttcat ctacgtgggc tacgtggacg acacgcagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacagatc tgcaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca tgaccagtcc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctctg gaccgcggcg 480
gacacggcgg ctacagatcac ccagcgcaag tgggagggcg cccgtgtggc ggagcagctg 540
agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgctgc agcgcgcgg 619

```

<210> 639  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

```

<400> 639
atcggggtca cggcgccccg aaccgtctc ctgctgctt cgggagccct ggccctgacc 60
gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120
cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt cgtgaggttc 180
gacagcgacg ccacgagtc gaggaaggag ccgcggggcg catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca tgaccagtcc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctctg gaccgcggcg 480
gacacggcgg ctacagatcac ccagcgcaag tgggagggcg cccgtgaggc ggagcagtg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgctgc agcgcgcgg 619

```

<210> 640  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

```

<400> 640
atcggggtca cggcgccccg aaccgtctc ctgctgctt cgggagccct ggccctgacc 60
gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120
cgcggggagc cccgcttcat ctacgtgggc tacgtggacg acacgcagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca tgaccagtcc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctctg gaccgcggcg 480
gacacggcgg ctacagatcac ccagcgcaag tgggagggcg cccgtgaggc ggagcagtg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgaggagat cacactgacc 720
tggcagcggg atggcgagga ccaaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg cgaagcccc tcaccctgag atgggagcca 900
tcttccagt ccaccatccc catcgtgggc attgttctg gcctggctgt ctagcagtt 960
gtggtcatcg gagctgtggt cgctactgtg atgttagga ggaagagtc aggtgga 1017

```

<210> 641  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 641

```

atgcgggtca cggcgccccg aaccgtctc ctgctgctct cgggagccct ggccctgacc    60
gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc ccggcccggc    120
cgcgggggagc cccgcttcat cgagtgggc tacgtggacg acaccagtt cgtgaggttc    180
gacagcgacg ccgcgagtcg gaggatggcg cccggggcgc catggataga gcaggagggg    240
ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac ttaccgagag    300
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag    360
agcatgtacg gctgcgacgt ggggcccggac gggcgctcc tccggggta tgaccagtcc    420
gcctacgacg gcaaggatta catgccctg aacgaggacc tgagctctg gaccgcggcg    480
gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg    540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatactgga gaacgggaag    600
gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac    660
catgaggcca cctgagggtg ctgggcccgt ggcttctacc ctgcggagat cacactgacc    720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca    780
ggagatagaa cctccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga    840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca    900
tcttcccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt    960
gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagtc aggtgga    1017

```

&lt;210&gt; 642

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 642

```

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc    60
gttctatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg    120
cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg    180
accgggagac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc    240
tgcggggcta ctacaaccag agcgaggccc ggtctcacac cctccagagg atgtacggct    300
gcgacgtggg gccggacggg cgctctctcc gggggcatga ccagtccgc tacgacggca    360
aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac acggcggtc    420
agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg    480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc    540
gcgcggg    546

```

&lt;210&gt; 643

&lt;211&gt; 615

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 643

```

gggtcacggc gccccgaacc gtctctctgc tgctctcggg agccctggcc ctgaccgaga    60
cctgggcccg ctcccactcc atgaggtatt tctacaccgc catgtcccgg ccggcccg    120
gggagccccg cttcatcgca gtgggctacg tggacgacac ccagttcgtg aggttcgaca    180
gcgacgccgc gagtccgagg atggcgcccc gggcgcatg gatagagcag gaggggcccg    240
agtattggga ccgggagaca cagatctcca agaccaacac acagacttac cgagtgaacc    300
tgcggaacct gcgcggtac tacaaccaga gcgaggcccg gtctcacacc ctccagagga    360
tgtacggctg cgacgtgggg ccggacgggc gcctctccg cgggcatgac cagtccgct    420
acgacggcaa ggattacatc gcctgaacg aggacctgag ctcttgacc gcggcggaca    480
cggcggctca gatcacccag gcgaagtggg aggcggcccg tgaggcggag cagtggagag    540
cctacctgga gggcctgtgc gtggagtggc tccgcagata cctggagAAC ggaaggaga    600
cgctgcagcg gcggg    615

```

&lt;210&gt; 644

&lt;211&gt; 619

&lt;212&gt; DNA



&lt;213&gt; Homo sapiens

&lt;400&gt; 644

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct ggccctgacc	60
gagacctggg cgggtccca ctccatgagg tatttttaca ccgcatgtc ccggcccggc	120
cgcggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc	180
gacagcgacg ccgagagtc gaggatggcg ccccgggcgc catggataga gcaggagggg	240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag	300
agcctgcgga acctgcggcg ctactacaac cagagcgagg ccgggtctca caccctccag	360
aggatgtacg gctgcgacgt ggggcccggc gggcgctcc tccgcgggca taaccagttc	420
gcctacgacg gcaaggatta catgccttg aacgaggacc tgagtcctg gaccgcggcg	480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtgg	540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatactgga gaacgggaag	600
gagacgtctgc agcgcgcgg	619

&lt;210&gt; 645

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 645

gtcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc	60
gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcaac agcgacgccg	120
cgagtccgag gatggcgccc cgggcgccat ggatagagca ggagggggcg gattattggg	180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc	240
tgcggcgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct	300
gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca	360
aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac acggcggtc	420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg	480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc	540
gcgcgg	546

&lt;210&gt; 646

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 646

gtcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc	60
gcttcactc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg	120
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggagggggcg gattattggg	180
accgggagac acagatctcc aagaccaaca cacagactga ccgagagagc ctgcggaacc	240
tgcggcgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct	300
gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca	360
aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac acggcggtc	420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg	480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc	540
gcgcgg	546

&lt;210&gt; 647

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 647

gtcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc	60
gcttcactc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg	120

cgagtccgag agaggagccg cgggcccgt ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtccgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 648  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 648  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgcccgc ggggagcccc 60  
 gttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gatggcgccc cgggcgcat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 649  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 649  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgcccgc ggggagcccc 60  
 gttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgcccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 650  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 650  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgcccgc ggggagcccc 60  
 gttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gatggcgccc cgggcgcat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcgga gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcgcgg 546

<210> 651  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 651  
atgcgggtca cggcgccccg aaccgtcttc ctgtgtctct cgggagccct ggcctgacc 60  
gagacctggg cgggtccca ctccatgagg tatttctaca ccgcatgtc cggcccggc 120  
cgcggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
gacagcgacg ccgcgagtc gaggatggcg ccccgggcg catggataga gcaggagggg 240  
ccggagtatt gggaccggga gacacagatc tgcaagacca acacacagac ttaccgagag 300  
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggttca caccctccag 360  
aggatgtacg gctgcgacgt ggggcccggc gggcgctcc tccgcccga tgaccagtcc 420  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagtcctg gaccgcggcg 480  
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtgg 540  
agagcctacc tggaggccct gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
gagacgctcg agcgcgga ccccccgaag acacatgtga cccaccacc catctctgac 660  
catgaggcca cctgagggtg ctggccctg ggcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
ggagatagaa cctccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
tcttccagc ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
gtggtcatcg gagctgtggt cgctactgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 652  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 652  
gctcccactt catgaggtat ttctacaccg ccatgtcccc gccggccgc ggggagcccc 60  
gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag gatggcgccc cggcgccat ggatagagca ggaggggccc gattattggg 180  
accgggagac acggaacatg aaggcctccg cgcagactta ccgagagaac ctgcggatcg 240  
cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg atgtatggct 300  
ggacacctggg gccggacggg cgcctcctcc gcgggcatga ccagtcgcc tacgacggca 360  
aggattacat gcacctgaac gaggacctga gtcctggac cgcggcggac acggcggctc 420  
agatcaccca gcacaagtgg gaggggccc gtgaggcggg gcagctgaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcgcgg 546

<210> 653  
<211> 822  
<212> DNA  
<213> Homo sapiens

<400> 653  
gctcccactc catgaggtat ttctacacct ccgtgtcccc gccggccgc ggggagcccc 60  
gcttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag agaggagccc cgggcgcctt ggatagagca ggaggggccc gattattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgccgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
ggcagctggg gccggacggg cgcctcctcc gcgggcatga ccagtcgcc tacgacggca 360  
aggattacat gcacctgaac gaggacctga gtcctggac cgcggcggac acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcggaccc cccaaagaca catgtgacct accacccat ctctgacct gaggccaccc 600  
 tgaggtgctg ggcctgggc ttctaccctg cggagatcac actgacctgg cagcgggatg 660  
 gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga gatagaacct 720  
 tccagaagtg ggcagctgtg gtgtgcctt ctggagaaga gcagagatac acatgccatg 780  
 tacagcatga ggggctgccg aagccctca ccctgagatg gg 822

<210> 654  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 654  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcactc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag agaggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga acctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 655  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 655  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcactc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag gatggcgccc cggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 656  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 656  
 gctcccactc catgaggtat ttccacacct cgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcactc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag gatggcgccc cggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540

gcgcggaccc cccaaagaca catgtgaccc accaccccat ctctgacat gaggccaccc 600  
 tgagggtgctg ggccttgggc ttctaccctg cggagatcac actgacctgg cagcgggatg 660  
 gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga gatagaacct 720  
 tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac acatgccatg 780  
 tacagcatga ggggctgccg aagcccctca ccctgagatg gg 822

<210> 657  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 657  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtcaggag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctgc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcggggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtcgcc tacgacggca 360  
 aggtattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcggaccc cccaaagaca catgtgaccc accaccccat ctctgacat gaggccaccc 600  
 tgagggtgctg ggccttgggc ttctaccctg cggagatcac actgacctgg cagcgggatg 660  
 gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga gatagaacct 720  
 tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac acatgccatg 780  
 tacagcatga ggggctgccg aagcccctca ccctgagatg gg 822

<210> 658  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 658  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcaggag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcggggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagttagcc tacgacggca 360  
 aggtattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagtgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 659  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 659  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtcaggag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagatcaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcggggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtcgcc tacgacggca 360  
 aggtattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 660  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 660gtctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accgggagac acagatctcc aagaccâaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtcaggcgga gcagtgagga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 661  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 661  
 atgcgggtca cggcgccccg aaccctctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctcatgagg tatttcaca cctccgtgtc ccggcccggc 120  
 cgcggggagc cccgcttcat ctgagtggtc tacgtggacg gcaccagtt cgtgaggtc 180  
 gacagcgacg ccgcgagtc gaggacggag cccggggcgc cgtggataga gcaagagggg 240  
 ccggagtatt gggaccgga cacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcgg ctcatatcac ccagcgcaag tgggagggcg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gacacctgga gaacgggaag 600  
 gagacgctgc agcgcgcgga ccccccâaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtgggtc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catctgggc attgtgtgtg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 662  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 662  
 gtctccactc catgaggtat ttccacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacggca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg gagtattggg 180  
 accggaacac acagatctcc aagaccaaca cacagactta cagagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggtc 420

agatcaccca ggcgaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 663  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 663  
 atgcgggtca cggcgccccg aacctctctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc ccggcccggc 120  
 cgcggggagc cccgcttcat ctactgggc tacgtggacg gcacccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagcggag ccccgggcgc cgtggataga gcaagagggg 240  
 ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aatatgtatg gctgcgacgt ggggcccggac gggcgccctc tccgcgggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgagg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gacacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcccgt ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttccagaa gtgggcagct gtggtgtgtc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgttctg gctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgttagga ggaagagctc aggtgga 1017

<210> 664  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 664  
 atgcgggtca cggcgccccg aacctctctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc ccggcccggc 120  
 cgcggggagc cccgcttcat ctactgggc tacgtggacg gcacccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagcggag ccccgggcgc cgtggataga gcaagagggg 240  
 ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac tgaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggcccggac gggcgccctc tccgcgggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgagg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gacacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcccgt ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttccagaa gtgggcagct gtggtgtgtc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgttctg gctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgttagga ggaagagctc aggtgga 1017

<210> 665  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 665

```

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc ggggagcccc 60
gcttcattgc agtggggtac gtggacggca cccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc cgggcccgt ggatagagca agaggggccc gagtattggg 180
accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctcctcc ggggcatga ccagtccgc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctcctggac cgcgccggac accgcggctc 420
agatcaccca gcgcaagtgg gagggggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

```

&lt;210&gt; 666

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 666

```

gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc ggggagcccc 60
gcttcacttc agtggggtac gtggacggca cccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc cgggcccgt ggatagagca agaggggccc gagtattggg 180
accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctcctcc ggggcatga ccagtccgc tacgacggca 360
aggattacat cgcctgaag gaggacctga gctcctggac cgcgccggac accgcggctc 420
agatcaccca gcgcaagtgg gagggggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

```

&lt;210&gt; 667

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 667

```

atgcgggtca cggcgccccg aacctctctc ctgtgtctct ggggggcagt ggccctgacc 60
gagacctggg ctggctccca ctccatgagg tatttcaca cctccgtgtc ccggcccggc 120
cgcggggagc cccgttcat ctacgtgggc tacgtggacg gcacccagtt cgtgaggttc 180
gacagcgagc ccgcgagtc gaggacggag cccggggcgc cgtggataga gcaagagggg 240
ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac ttaccgagt 300
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggcccggc gggcgctcc tccgcgggca tgaccagtcc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacaccgagg ctacagtcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gacacctgga gaacgggaag 600
gagacgtgac agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgagggtg ctgggcccgt ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtgtgtgtgc ctcttgaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900
tcttccagt ccacctccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960
gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

```

&lt;210&gt; 668

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



&lt;400&gt; 668

```
gctccactc catgaggtat ttccacacct ccgtgtccc gcccggccgc ggggagcccc 60
gcttcatctc agtgggctac gtggacggca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgcctctcc gcgggcatga ccagtcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546
```

&lt;210&gt; 669

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 669

```
gctccactc catgaggtat ttccacacct ccgtgtccc gcccggccgc ggggagcccc 60
gcttcatctc agtgggctac gtggacggca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtgcggct 300
gcgacgtggg gccggacggg cgcctctcc gcgggcatga ccagtcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546
```

&lt;210&gt; 670

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 670

```
gctccactc catgaggtat ttccacacct ccgtgtccc gcccggccgc ggggagcccc 60
gcttcatctc agtgggctac gtggacggca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagaa ctgcgcaccg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgcctctcc gcgggcatga ccagtcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546
```

&lt;210&gt; 671

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 671

```
gctccactc catgaggtat ttccacacct ccgtgtccc gcccggccgc ggggagcccc 60
gcttcatctc agtgggctac gtggacggca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
```

tgcgcggcta ctacaaccag agcaggccg ggtctcacac cctccagagg atgtacggct 300  
 ggcacgtggg gccggacggg cgctctcc gccggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 672  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 672  
 gctcccactc catgaggtat ttccacacct cgtgtccc gcccgccgc ggggagcccc 60  
 gcttcctc agtgggctac gtggacggca ccagttcgt gaggttcgac agcgacgcc 120  
 cgagtcggag gacggagccc cggcgccgt ggatagagca agaggggccg gaggattggg 180  
 accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcaggccg ggtctcacac cctccagagg atgtacggct 300  
 ggcacgtggg gccggacggg cgctctcc gccggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 673  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 673  
 gctcccactc catgaggtat ttccacacct cgtgtccc gcccgccgc ggggagcccc 60  
 gcttcctc agtgggctac gtggacggca ccagttcgt gaggttcgac agcgacgcc 120  
 cgagtcggag gacggagccc cggcgccgt ggatagagca agaggggccg gaggattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcaggccg ggtctcacac cctccagagg atgtacggct 300  
 ggcacgtggg gccggacggg cgctctcc gccggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 674  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 674  
 gctcccactc catgaggtat ttccacacct cgtgtccc gcccgccgc ggggagcccc 60  
 gcttcctc agtgggctac gtggacggca ccagttcgt gaggttcgac agcgacgcc 120  
 cgagtcggag gacggagccc cggcgccgt ggatagagca agaggggccg gaggattggg 180  
 accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcaggccg ggtctcacac cctccagagg atgtacggct 300  
 ggcacgtggg gccggacggg cgctctcc gccggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagcggaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 675  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 675  
 gctccactc catgaggtat ttccacacct ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcactc agtgggctac gtggacggca cccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccgt ggatagagca agagggggccg gagtattggg 180  
 accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc tacgacggca 360  
 aggtattacat cgccctgaac gaggacctga gtcctggac cgcgccggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 676  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 676  
 gctccactc catgaggtat ttccacacct ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcactc agtgggctac gtggacggca cccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccgt ggatagagca agagggggccg gagtattggg 180  
 accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc tacgacggca 360  
 aggtattacat cgccctgaac gaggacctga gtcctggac cgcgccggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgagcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 677  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 677  
 gctccactc catgaggtat ttccacacct ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcactc agtgggctac gtggacggca cccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccgt ggatagagca agagggggccg gagtattggg 180  
 accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtctggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc tacgacggca 360  
 aggtattacat cgccctgaac gaggacctga gtcctggac cgcgccggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 678  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 678

```

gtccaccac catgaggtat ttccacacct ccgtgtcccg gcccgccgc ggggagcccc 60
gtttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcc 120
cgagtccgag agaggagccg cggcgcccg gtatagagca ggaggggccc gagtattggg 180
accgggagac acagatctgc aaggccaagg cacagactta ccgagagaac ctgcgcaccg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat atgtatggct 300
gcgacgtggg gccggacggg cgctctctcc ggggtacca ccaggacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctcctggac cgcgcggac acggcggctc 420
agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

&lt;210&gt; 679

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 679

```

atcggggtca cggcgcccc aacctctctc ctgctgctct ggggggcagt ggccctgacc 60
gagacctggg ctggtccca ctccatgagg tatttccaca cctccgtgc ccggcccggc 120
cgcggggagc ccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180
gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240
ccgagtatt ggaccggga gacacagatc tgcaaggcca aggcacagac tgaccgagag 300
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca cacctccag 360
aatatgtatg gctgcgacgt ggggcccggac gggcgctcc tccggggta ccaccaggac 420
gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctctg gaccgccgcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg ccgctgtggc ggagcagctg 540
agagcctacc tggagggcga gtgcgtggag tggtccgca gatactgga gaacgggaag 600
gagacgtgc agcgcgcca cccccaaag acacacgtga ccaccaccc catctctgac 660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagccc tcacctgag atgggagccg 900
tcttcccagt ccacctccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960
gtggtcatcg gagctgtgt cgctgctgtg atgtgtagga ggaagagctc aggtgga 1017

```

&lt;210&gt; 680

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 680

```

atcggggtca cggcgcccc aacctctctc ctgctgctct ggggggcagt ggccctgacc 60
gagacctggg ctggtccca ctccatgagg tatttccaca cctccgtgc ccggcccggc 120
cgcggggagc ccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180
gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagcatt gggaccggga gacacagatc tgcaaggcca aggcacagac tgaccgagag 300
gacctgcgga cctgctccg ctactacaac cagagcgagg ccgggtctca cacctccag 360
aatatgtatg gctgcgacgt ggggcccggac gggcgctcc tccggggta ccaccaggac 420
gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctctg gaccgccgcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg ccgctgtggc ggagcagctg 540
agagcctacc tggagggcga gtgcgtggag tggtccgca gatactgga gaacgggaag 600
gagacgtgc agcgcgcca cccccaaag acacacgtga ccaccaccc catctctgac 660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagccc tcacctgag atgggagccg 900
tcttcccagt ccacctccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960
gtggtcatcg gagctgtgt cgctgctgtg atgtgtagga ggaagagctc aggtgga 1017

```

<210> 681  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 681  
 atgcggtca cgcgccccg aacctcctc ctgctgctt ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc ccggcccggc 120  
 cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac tgaccgagag 300  
 agcctgcgga cctgtctcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aatatgtatg gctgcgacgt ggggccggac ggggcctcc tccgcgggta ccaccaggac 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctcctg gaccgccg 480  
 gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgagc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctggggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag atgggagccg 900  
 tcttccagc caccgtccc catcgtgggc attgttctg gctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctgctgtg atgttagga ggaagagctc aggtgga 1017

<210> 682  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 682  
 atgcggtca cgcgccccg aacctcctc ctgctgctt ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc ccggcccggc 120  
 cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac tgaccgagag 300  
 gacatgcgga cctgtctcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aatatgtatg gctgcgacgt ggggccggac ggggcctcc tccgcgggta ccaccaggac 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctcctg gaccgccg 480  
 gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtgac ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctggggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag atgggagccg 900  
 tcttccagc caccgtccc catcgtgggc attgttctg gctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctgctgtg atgttagga ggaagagctc aggtgga 1017

<210> 683  
 <211> 427  
 <212> DNA  
 <213> Homo sapiens

<400> 683  
 gctacgtgga cgacacgtg ttctgaggt tcgacagcga cgccgcgagt ccgagagagg 60  
 agccgcgggc gccgtggata gacgaggagg ggccggagta tgggaccgg gagacacaga 120  
 tctgcaaggc caaggcacag actgaccgag aggacctgcg gaccctgtc cgctactaca 180  
 accagagcga ggccgggtct cacacctcc agaatatgta tggctcgac gtggggccgg 240

acggggcgct cctccgctggg taccaccagg acgcctacga cggcaaggat tacatcgccc 300  
 tgaacgagga cctgagctcc tggaccgccc cggacacggc agctcagatc acccagcgca 360  
 agtgggaggg ggcccgtgtg gcggagcagc tgagagccta cctggagggc gagtgcgtgg 420  
 agtggct 427

<210> 684  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

<400> 684  
 atgcgggtca cggcgccccg aacctcctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg cgggtcccca ctccatgagg tatttccaca cctccgtgtc cggccccggc 120  
 cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccgagagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac tgaccgagag 300  
 gacctgcgga cctgctccg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aatatgtatg gctgcgagct ggggcccggc gggcgccctc tccgcggtta ccaccaggac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcccgc 480  
 gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcg 619

<210> 685  
 <211> 895  
 <212> DNA  
 <213> Homo sapiens

<400> 685  
 atgcgggtca cggcgccccg aacctcctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc cggccccggc 120  
 cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccgagagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac tgaccgagag 300  
 gacctgcgga cctgctccg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aatatgtatg gctgcgagct ggggcccggc gggcgccctc tccgcggtta ccaccaggac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcccgc 480  
 gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcccctg ggcttctacc ctgaggagat cactactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atggg 895

<210> 686  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 686  
 gctcccactc catgaggtat ttccacacct ccgtgtcccg gcctggccgc ggggagcccc 60  
 gcttcatcac cgtgggttac gtggacgaca cgctgttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag agaggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctgc aaggccaagg cacagactga ccgagaggac ctgcggaccc 240  
 tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat atgtatggct 300  
 gcgacgtggg gccggacggg gcctcctcc gcgggtacca ccaggacgcc tacgacggca 360

aggattacat cgcctgaac gaggacctga gctcctggac cgcccgggac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggcgggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcage 540  
 gcgcgg 546

<210> 687  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 687  
 atgcgggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ctggtccca ctccatgagg tatttccaca cctccgtgc cggccccggc 120  
 cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac tgaccgagag 300  
 agcctgcgga cctgctccg ctactacaac cagagcgagg cggggtctca caccctccag 360  
 aatatgtatg gctgcgacgt ggggcccggc gggcgctcc tccgcgggta tgaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcccgc 480  
 gacacggcgg ctcaagatcac ccagcgcaag tgggaggcgg cccgtgagc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctcgca gatactgga gaacgggaag 600  
 gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc catctctgac 660  
 catgaggcca cctgaggtg ctgggcccctg ggttctacc ctggggagat cactctgacc 720  
 tggcagcggg atggcgagga ccaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagc ccacgtccc catcgtgggc attgtgtgt gctgtgtgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgtgtgtgt atgttagga ggaagagctc aggtgga 1017

<210> 688  
 <211> 945  
 <212> DNA  
 <213> Homo sapiens

<400> 688  
 ggctccact ccatgaggtt tttcacacc tccgtgtccc ggcccggcgg cggggagccc 60  
 cgcttcatca ccgtgggcta cgtggacgac acgtgttgc tgaggttga cagcagccc 120  
 gcgagtcga gagaggagcc gcggcgccg tggatagac aggaggggccc ggagtattgg 180  
 gaccgggaga cacagatctg caaggccaag gcacagactg accgagagga cctgcggacc 240  
 ctgctccgct actacaacca gagcgaggcc ggtgtcaca cctccagag catgtacggc 300  
 tgcgacgtgg ggccggacgg gcgcctcctc cgccggcata accagtacgc ctacgacggc 360  
 aaggattaca tcgcctgaa cgaggacctg cgctcctgga ccgcgcgga cagggcggt 420  
 cagatcaccc agcgcaagtg ggaggcgccc cgtgtggcgg agcagctgag agcctacctg 480  
 gaggcgagc gctgtgagtg gctccgaga ~~tacctgaga~~ cgggaagga gacgtgcag 540  
 cgccgggacc cccaaagac acacgtgacc caccaccca tctctacca tgaggccacc 600  
 ctgaggtgct gggccctggg cttctaccct gcggagatca cactgacctg gcagcgggat 660  
 ggagaggacc aaactcagga cactgagctt ~~gtggaga~~ gaccagcagg agatagaacc 720  
 ttccagaagt gggcagctgt ggtgtgtcct tctggagaag agcagagata cacatgccat 780  
 gtacagcatg aggggctgcc gaagccctc acctgagat gggagccgtc ttccagtc 840  
 accgtcccca tcgtgggcat tgtgtgtgct ctggtgtcc tagcagttgt ggtcatcgga 900  
 gctgtgtgct ctgctgtgat gtgtaggagg aagagctcag gtgga 945

<210> 689  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 689

```

atgcgggtca cggcgccccg aacctctctc ctgtctctct ggggggcagt ggccctgacc 60
gagacctggg ctggctccca ctccatgagg tatttcaca cctccgtgtc cggccccggc 120
cgcgggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180
gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac tgaccgagag 300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aatatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggta ccaccaggac 420
gcctacgacg gcaaggatta catgcctctg aacgaggacc tgagctctg gaccgcgcg 480
gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540
agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900
tcttccagt ccaccgtccc catcgtgggc attgttctg ccttggtgt cctagcagtt 960
gtggtcatcg gagctgtggt cgctgtgtg atgtgttaga ggaagagctc aggtgga 1017

```

&lt;210&gt; 690

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

```

<400> 690atgcgggtca cggcgccccg aacctctctc ctgtctctct ggggggcagt ggccctgacc 60
gagacctggg ctggctccca ctccatgagg tatttcaca cctccgtgtc cggccccggc 120
cgcgggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180
gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac tgaccgagag 300
gacctgcgga cctgtctcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aatatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggta ccaccagcac 420
gcctacgacg gcaaggatta catgcctctg aacgaggacc tgagctctg gaccgcgcg 480
gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540
agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900
tcttccagt ccaccgtccc catcgtgggc attgttctg ccttggtgt cctagcagtt 960
gtggtcatcg gagctgtggt cgctgtgtg atgtgttaga ggaagagctc aggtgga 1017

```

&lt;210&gt; 691

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 691

```

gctcccaact catgaggtat ttccacacct ccgtgtccg gcccgccgc ggggagcccc 60
gcttcatcac cgtgggctac gtggacgaca cgctgttctg gaggttcgac agcgacgccg 120
cgagtccgag agaggagccg cgggcccgt ggatagagca ggaggggccg gattattggg 180
accgggagac acagatctgc aaggccaagg cacagactga ccgagaggac ctgcggacc 240
tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat atgtatggt 300
gcgacgtggg gccggacggg cgctctctcc gcgggtacca ccaggacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctcctggac cgccgaggac acggcggtc 420
agatcaccca gcgaagtgg gagggggccc gtgaggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```



<210> 692  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 692  
 atgcggtca cggcgccccg aacctctctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc cggccccggc 120  
 cgcgggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac tgaccgagag 300  
 agcctgcgga cctgtctcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgccgag 480  
 gacacggcgg ctacatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacttga gaacgggaag 600  
 gagacgtgc agcgcgcca cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttccagaa gtgggcagct gtggtggagc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 tgggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 693  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 693  
 atgcggtca cggcgccccg aacctctctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc cggccccggc 120  
 cgcgggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tgcaagacca acacacagac tgaccgagag 300  
 agcctgcgga cctgtcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aatatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggta ccaccaggac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgccgag 480  
 gacacggcgg ctacatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacttga gaacgggaag 600  
 gagacgtgc agcgcgcca cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttccagaa gtgggcagct gtggtggagc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 tgggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 694  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 694  
 atcggggtca cggagccccg aacctctctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc cggccccggc 120  
 cgcgggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180

gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac tgaccgagag 300  
 gacctgcgga cctgctccg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aatatgtatg gctgcgacgt ggggcccggac gggcgctcc tccgcggtta ccaccaggac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgccgcg 480  
 gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagt ccaccgtcc catcggtggc attgttctg gctgtgctg cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgtgctgtg atgttagga ggaagagctc aggtgga 1017

&lt;210&gt; 695

&lt;211&gt; 619

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 695

atgcgggtca cggcgccccg aaccctctc ctgctgctt ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctccatgagg tatttcaca cctccgtgtc ccggcccggc 120  
 cgcggggagc cccgttcat caccgtggg tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac tgaccgagag 300  
 gacctgcgga cctgctccg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 acgatgtatg gctgcgacgt ggggcccggac gggcgctcc tccgcggtta ccaccaggac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgccgcg 480  
 gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcg 619

&lt;210&gt; 696

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 696

gctcccactc catgaggtat ttccacacct ccgtgtccc gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttctg gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccc cggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctgc aaggccaagg cacagactga ccgagagagc ctgcggacc 240  
 tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggtacca ccaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgccgcggac acggcggtc 420  
 agatcaccca gcgaagtgg gaggcgccc gtgagcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

&lt;210&gt; 697

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 697

gctcccactc catgaggtat ttccacacct ccgtgtccc gcccgccgc ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgccg 120  
 cgagtcggag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctgc aagaccaaca cacagactga ccgagaggac ctgcggaccc 240  
 tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat atgtatggct 300  
 gcgacgtggg gccggacggg cgcctcctcc gcgggtacca ccaggacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac gccgcggac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 698  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 698  
 gctccactc catgaggtat ttccacacct ccgtgtcccg gccgggccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgccg 120  
 cgagtcggag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagttttggg 180  
 accgggagac acagatctgc aaggccaagg cacagactga ccgagaggac ctgcggaccc 240  
 tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat atgtatggct 300  
 gcgacgtggg gccggacggg cgcctcctcc gcgggtacca ccaggacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac gccgcggac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 699  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

<400> 699  
 atgcgggtca cggcgccccg aacctcctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctccatgagg ttttccaca cctccgtgc ccggcccgcc 120  
 cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt cgtgaggtc 180  
 gacagcgacg ccgagagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agctcgcgga acctgcggg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aatatgtatg gctgcgacgt ggggcgggac gggcgctcc tccgcgggta ccaccaggac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgccgcg 480  
 gacacggcgg ctcatgacac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgctgc agcgcgcg 619

<210> 700  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 700  
 gctccactc catgaggtat ttccacacct ccgtgtcccg gccgggccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgccg 120  
 cgagtcggag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctgc aaggccaagg cacagactga ccgagaggac ctgcggaccc 240  
 tgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgcctcctcc gcgggtacca ccaggacgcc tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgccgaggac acggcggtc 420  
agatcaccca gcgcaagtgg gagggggccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

<210> 701  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 701  
gtcccaactc catgaggtat ttccacacct ccgtgtcccg gccggccgc ggggagcccc 60  
gtttcatcac cgtgggtac gtggacgaca cgctgttcgt gaggttcgac agcgacgccg 120  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gattattggg 180  
accgggagac acagatctgc aaggccaagg cacagactga ccgagagagc ctgcggacct 240  
tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat atgtacggct 300  
gcgacgtggg gccggacggg cgctcctcc gcgggataa ccagtacgc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgaggac acggcggtc 420  
agatcaccca gcgcaagtgg gagggggccc gtgaggcgga gcagctgaga gcctacctgg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

<210> 702  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 702  
gtcccaactc catgaggtat ttccacacct ccgtgtcccg gccggccgc ggggagcccc 60  
gtttcatcac cgtgggtac gtggacgaca cgctgttcgt gaggttcgac agcgacgccg 120  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gattattggg 180  
accgggagac acagatctgc aaggccaagg cacagactga ccgagagagc ctgcggacct 240  
tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgctcctcc gcgggtatga ccagtacgc tacgacggca 360  
aggattacat cgccctgaac gaggacctga gctcctggac cgccgaggac acggcggtc 420  
agatcaccca gcgcaagtgg gagggggccc gtgaggcgga gcagctgaga gcctacctgg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

<210> 703  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 703  
gtcccaactc catgaggtat ttccacacct ccgtgtcccg gccggccgc ggggagcccc 60  
gtttcatcac cgtgggtac gtggacgaca cgctgttcgt gaggttcgac agcgacgccg 120  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gattattggg 180  
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggacct 240  
tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat atgtatggct 300  
gcgacgtggg gccggacggg cgctcctcc gcgggtacca ccaggacgc tacgacggca 360  
aggattacat cgccctgaac gaggacctga gctcctggac cgccgaggac acggcggtc 420  
agatcaccca gcgcaagtgg gagggggccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

<210> 704  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 704  
 gctccactc catgaggtat ttccacacct cegtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtggggtac gtggacgaca cgctgttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctgc aaggccaagg cacagactga ccgagagagc ctgcggaccc 240  
 tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcctggac cgccgggac acggcggctc 420  
 agatctccca gcgcaagtgg gaggcgggcc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcgagt cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 705  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 705  
 gctccactc catgaggtat ttccacacct cegtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtggggtac gtggacgaca cgctgttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctgc aaggccaagg cacagactga ccgagagagc ctgcggaccc 240  
 tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggtacca ccaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgccgggac acggcggctc 420  
 agatcaccga gcgcaagtgg gaggcgggcc gtgaggcgga gcagtgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 706  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 706  
 atcggggtca cggcgccccg aaccgtctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
 cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgagc ccgagagtc gaggacggg cccgagagc cccgagagc cccgagagc 240  
 ccgagatatt gggaccggaa cacacagatc ttaagacca acacagac ttaccgagag 300  
 agcctgcgga acctgcggg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacct ggggcccgcg ggggcctcc tccggggca tgaccagtc 420  
 gcctacgagc gcaaggatta catgcacctg aacgaggacc tgagctctg gaccgcggc 480  
 gacaccggg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctcgcga gatactgga gaacgggaag 600  
 gagacgtgc agcgcggga cccccaag acacacgtga cccaccacc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggcctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agacagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 707  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 707  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccc ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc tacgacggca 360  
 aggattacat gcgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcttacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 708  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 708  
 atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttttaca ccgcatgtc ccggcccggc 120  
 cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcggg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacct ggggcccgcg gggcgcttc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgagg ctacatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgtc agcgcgcgga cccccaaag acacacgtga cccaccacc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttcccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtgtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 709  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 709  
 atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttttaca ccgcatgtc ccggcccggc 120  
 cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcggg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacct ggggcccgcg gggcgcttc tccgcgggca tgaccagttc 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgagg ctacatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600

gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgaggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 710  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 710  
 atgcgggtca cggcgccccg aaccgtctc ctgctgctt ggggggcagt ggcctgacc 60  
 gagacctggg ccggtccca ctccatgagg ttttctaca ccgcatgtc ccggcccggc 120  
 cgcggggagc cccgttcat cgcagtggg tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggacggag ccccgggcg catggataga gcaggagggg 240  
 ccggagtatt gggaccgga cacacagatc ttcaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcg ctagatcac ccagcgcaag tgggagggcg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgaggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 711  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 711  
 atgcgggtca cggcgccccg aaccgtctc ctgctgctt ggggggcagt ggcctgacc 60  
 gagacctggg ccggtccca ctccatgagg ttttctaca ccgcatgtc ccggcccggc 120  
 cgcggggagc cccgttcat cgcagtggg tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggacggag ccccgggcg catggataga gcaggagggg 240  
 ccggagtatt gggaccgga cacacagatc ttcaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgacct ggggcccgc gggcgctcc tccgcgggca tgaccagtc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcg ctagatcac ccagcgcaag tgggagggcg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgaggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 712

<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 712

```
atgcgggtca cggcgccccg aaccgtctc ctgtctctt ggggggcagt ggccctgacc 60
gagacctggg cgggtccca ctccatgagg tatttctaca ccgcatgtc cggccccgc 120
cgcggggagc cccgttcat cgagtgggc tacgtggacg acaccagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gaggacggag cccggggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca catcatccag 360
aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccggggca taaccagttc 420
gcctacgacg gcaaggatta catgcacctg aacgaggacc tgagctctg gaccgcgcg 480
gacaccgagg ctcatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatactgga gaacgggaag 600
gagacgtgc agcgcgagg cccccaaag acacacgtga cccaccacc cgtctctgac 660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtggtg cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900
tcttccagc ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960
gtggtcatcg gagctgtggt cgctactgtg atgttagga ggaagagctc aggtgga 1017
```

<210> 713  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 713

```
atgcgggtca cggcgccccg aaccgtctc ctgtctctt ggggggcagt ggccctgacc 60
gagacctggg cgggtccca ctccatgagg tatttctaca ccgcatgtc cggccccgc 120
cgcggggagc cccgttcat cgagtgggc tacgtggacg acaccagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gaggacggag cccggggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca catcatccag 360
aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccggggca tgaccagtc 420
gcctacgacg gcaaggatta catgcacctg aacgaggacc tgagctctg gaccgcgcg 480
gacaccgagg ctcatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatactgga gaacgggaag 600
gagacgtgc agcgcgagg cccccaaag acacacgtga cccaccacc cgtctctgac 660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtggtg cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900
tcttccagc ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960
gtggtcatcg gagctgtggt cgctactgtg atgttagga ggaagagctc aggtgga 1017
```

<210> 714  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 714

```
atgcgggtca cggcgccccg aaccgtctc ctgtctctt ggggggcagt ggccctgacc 60
gagacctggg cgggtccca ctccatgagg tatttctaca ccgcatgtc cggccccgc 120
cgcggggagc cccgttcat cgagtgggc tacgtggacg acaccagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gaggacggag cccggggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag 300
```



agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacct ggggcccgcac gggcgctcc tccgcgggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagcgg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccc aaag acacacgtga cccaccacc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgtgtctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 715  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 715  
 atgcgggtca cggcgccccg aaccgtctc ctgctgctct ggggggcagt ggcctgacc 60  
 gagacctggg ccggctccca ctccatgagg tattttaca ccgcatgtc ccggccggc 120  
 gcgggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggtc 180  
 gcagcgcagc ccgcgagtc gaggcggag cccggggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccgga cacacagatc ttcaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacct ggggcccgcac gggcgctcc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccc aaag acacacgtga cccaccacc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgtgtctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 716  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 716  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gccgggccg ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cggcgccat ggatagagca ggaggggccg gattattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggcgg ggtctcatat catccagagg atgtatggct 300  
 gcgacctggg gccgcaggg gcctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat gccttgaac gaggacctgc gctctggac cggcgggac acggcggtc 420  
 agatcaccca gcgaagtgg gaggcgccc gtgtggcgga gcagtgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtctgacg 540  
 gcgcgg 546

<210> 717  
 <211> 525  
 <212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 717

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc	60
gcttcacgc agtgggtac gtggacgaca cccagttcgt gaggttcgac agcgacgccg	120
cgagtcgag gacggagccc cgggcgccat ggatagagca ggagggcccg gaggattggg	180
accgggagac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc	240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct	300
gcgacctggg gcccgacggg cgctctccc gcgggcatga ccagtcgcc tacgacggca	360
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac acccgggctc	420
agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagctgaga gcctacctgg	480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgga	525

&lt;210&gt; 718

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 718

atcggggtca cggcgccccg aaccgtctc ctgctgctt ggggggcagt ggccctgacc	60
gagacctggg ccggtccca ctccatgagg tatttttaca ccgcatgtc ccggcccggc	120
cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc	180
gacagcgacg ccgaggtcc gaggacggag cccggggcgc catggataga gcaggagggg	240
ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag	300
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca catcatccag	360
aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccgcccga tgaccagtcc	420
gcctacgacg gcaaggatta catgcctg aacgaggacc tgagctctg gaccgcccgc	480
gacaccgagg ctacatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg	540
agagcctacc tggagggcct gtgcgtggag tggctccga gatactgga gaacgggaag	600
gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc cgtctctgac	660
catgaggcca cctgaggtg ctgggcccgt ggcttctacc ctgcggagat cacactgacc	720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca	780
ggagatagaa ccttcagaa gtgggcagct gtgggtgtgc cttctggaga agagcagaga	840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca	900
tcttccagc ccaccatccc catcgtggc attgtgtctg gcctggctgt cctagcagtt	960
gtgtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga	1017

&lt;210&gt; 719

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 719

atcggggtca cggcgccccg aaccgtctc ctgctgctt ggggggcagt ggccctgacc	60
gagacctggg ccggtccca ctccatgagg tatttttaca ccgcatgtc ccggcccggc	120
cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc	180
gacagcgacg ccgaggtcc gaggacggag cccggggcgc catggataga gcaggagggg	240
ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag	300
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca catcatccag	360
aggatgtacg gctgcgacct ggggcccgc gggcgctcc tccgcccga taaccagtac	420
gcctacgacg gcaaggatta catgcctg aacgaggacc tgagctctg gaccgcccgc	480
gacaccgagg ctacatcac ccagcgcaag tgggaggcgg cccgtgtgga ggagcagctg	540
agagcctacc tggagggcct gtgcgtggag tggctccga gatactgga gaacgggaag	600
gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc cgtctctgac	660
catgaggcca cctgaggtg ctgggcccgt ggcttctacc ctgcggagat cacactgacc	720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca	780
ggagatagaa ccttcagaa gtgggcagct gtgggtgtgc cttctggaga agagcagaga	840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca	900

tcttccagtc ccaccatccc catcgctgggc attgttctg gcttggtgt cctagcagtt 960  
gtggatcatcg gagctgtgtg cgtactgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 720  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 720  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggtta ctacaaccag agcgaggccc ggtctcacat catccagagg atgtatggct 300  
gcgacctggg gccgacggg cgctctctcc ggggcatga ccagttcgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctga gtcctggac cgcgccggac acccgggctc 420  
agatcaccca gcgaagtgg gagggcgccc gtgtggcgga gcagtgaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
gcgcgg 546

<210> 721  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 721  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggtta ctacaaccag agcgaggccc ggtctcacat catccagagg atgtatggct 300  
gcgacctggg gccgacggg cgctctctcc ggggcatga ccagttcgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctga gtcctggac cgcgccggac acccgggctc 420  
agatcaccca gcgaagtgg gagggcgccc gtgagggcga gcagtgaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
gcgcgg 546

<210> 722  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 722  
atgcgggtca cggcgccccg aaccgtctc ctgctgtct ggggggcagt ggccctgacc 60  
gagacctggg ccggtccca ctccatgagg tattttctaca ccgcatgtc ccggcccgcc 120  
cgcggggagc ccgcttcat cgcagtggg tacgtggacg acacccagtt cgtgaggttc 180  
gacagcgacg ccgcgagtc gaggacggag ccccgggcgc catggataga gcaggagggg 240  
ccggagtatt gggaccgga cacacagatc tcaagacca acacacagac ttaccgagag 300  
agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccgcgggca tgaccagtc 420  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctctg gaccgcgcg 480  
gacaccgagg ctcatgtac ccagcgcaag tgggaggcgg ccctgtggc ggagcagctg 540  
agagcctacc tggaggcgga gtgcgtggag tggctccga gatactgga gaacgggaag 600  
gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc cgtctctgac 660  
catgaggcca cctgaggtg ctgggcccgt ggcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
ggagatagaa ccttcagaa gtgggcagct gtggtgtgtc cttctggaga agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagtt ccacatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggcatcgc gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 723  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 723  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagc atgtacggct 300  
 gcgacgtggg gcccgacggg cgctctctcc gcgggcatga ccagtccgc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctctggac cgcgccggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 724  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 724  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagc atgtacggct 300  
 gcgacgtggg gcccgacggg cgctctctcc gcgggcatga ccagtccgc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctctggac cgcgccggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 725  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 725  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacgtggg gcccgacggg cgctctctcc gcgggcataa ccagtacgc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctctggac cgccgcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagcgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 726

<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 726  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gttctatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtatggct 300  
gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctga gctctggac cgcggcggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcgcgg 546

<210> 727  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 727  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gttctatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtatggct 300  
gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctga gctctggac cgcggcggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcgcgg 546

<210> 728  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 728  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gttctatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtatggct 300  
gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctga gctctggac cgcggcggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540  
gcgcgg 546

<210> 729  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 729  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60

```

gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120
cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300
gcgacgtggg gccgacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggtc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 730  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 730gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120
cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggtta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtttggct 300
gcgacgtggg gccgacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggtc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 731  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 731
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120
cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggtta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300
gcgacgtggg gccgacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggtc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 732  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 732
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120
cgagtcgag agaggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggtta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300
gcgacgtggg gccgacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggtc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480

```

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcgcgg 546

<210> 733  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 733  
gtccccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag agaggagccc.cggcgccat ggatagagca ggaggggccg gaattattggg 180  
accggaacac acagatctgc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtatggct 300  
gcgacctggg gcccgacggg gcctcctcc gcggcatga ccagtcgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcgcgg 546

<210> 734  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 734  
gtccccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag gacggagccc.cggcgccat ggatagagca ggaggggccg gattattggg 180  
accggaacac acagatcttc aagaccaaca cacagactta ccgagagaa ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtatggct 300  
gcgacctggg gcccgacggg gcctcctcc gcggcatga ccagtcgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcgcgg 546

<210> 735  
<211> 619  
<212> DNA  
<213> Homo sapiens

<400> 735  
atgcgggtca cggcgccccg aacctctc ctgtgtctt ggggggcagt ggccctgacc 60  
gagacctggg ccggctccca ctccatgagg tatttttaca ccgcatgtc ccggcccggc 120  
cgcggggagc ccgcttcat cgagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
gacagcgacg ccgagatcc gaggacggag ccccgccgc catggataga gcaggagggg 240  
ccgagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
agcctgcgga acctgcggg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccggggca tgaccagtc 420  
gcctacgacg gcaaggatta catgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
gacaccggg ctcatcac ccagcgcaag tgggagggcg ccgtgtggc ggagcagctg 540  
agagcctacc tggagggcct gtgcgtggag tggctccga gatacttga gaacgggaag 600  
gagacgtgc agcgcgcg 619

<210> 736

<211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 736  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggtta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acccgggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 737  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 737  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggtta ctacaaccag agcgaggccg ggtctcacat catccagagc atgtacggct 300  
 gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acccgggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 738  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 738  
 atgcgggtca cggcgccccg aaccgtctc ctgctgctt ggggggcagt ggccctgacc 60  
 gagacctggg ccggctcca ctccatgagg ttttctaca ccgcatgtc ccggcccgcc 120  
 cgcggggagc ccgcttcat cgcagtggc tacgtggacg acaccagtt cgtgaggtc 180  
 gacagcgacg ccgcgagtc gaggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccgga cacacagatc ttcaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgacgt ggggcccggac gggcgccctc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgcccgc 480  
 gacacggcgg ctcatatca ccagcgcaag tgggaggcgg ccggtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgctgc agcgcgcgga ccccccgaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtgggtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagat ccaccgtccc catcgtggg attgtgtgtg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgtgtg atgtgtagga ggaagagctc aggtgga 1017



<210> 739  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 739  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag gacggagccc cggcgccat ggatagagca ggaggggccg gagtattggg 180  
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gcccgacggg gcctcctcc gcgggcatga ccagtccgc tacgacggca 360  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
agatcaccca gcgcaagtgg gagcgggccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

<210> 740  
<211> 564  
<212> DNA  
<213> Homo sapiens

<400> 740tgaccgagac ctggcgccgc tccactcca tgaggtattt ctacaccgc atgtccggc 60  
ccggcccgcc ggagccccg ttcacgcag tgggtacgt ggacgacacc cagttcgtga 120  
ggttcgacag cgacggccg agtccgagga cggagccccg ggcgccatgg atagagcagg 180  
agggcgccga gtattgggac cggaacacac agatcttcaa gaccaacaca cagactacc 240  
gagagagcct gcggaacctg cgcggctact acaaccagag cgaggccggg tctcacatca 300  
tccagaggat gtatggctgc gacctggggc ccgacggcg cctcctccg gggcatgacc 360  
agtgcgcta cgacggcaag gattacatcg cctgaacga ggacctgagc tctggaccg 420  
cggcgacac cgcggctcag ataccagc gcaagtggga ggcggcccgt gtggcgagc 480  
agctgagagc ctacctggag ggcgagtgcg tggagtggct ccgagatac ctggagaacg 540  
ggaaggagac gctgcagcgc gcgg 564

<210> 741  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 741  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag gacggagccc cggcgccat ggatagagca ggaggggccg gagtattggg 180  
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ~~ggtctcacat~~ ~~cacagagg~~ atgtatggct 300  
gcgacctggg gcccgacggg gcctcctcc gcgggcatga ccagtacgc tacgacggca 360  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
agatcaccca gcgcaagtgg gagcgggccc ~~gtgtggcgga~~ ~~gcagctgaga~~ gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

<210> 742  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 742  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60

```

gcttcacgc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120
cgagtcgag gacggagccc cgggcgccat ggatagagca ggagggggccg gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300
gcgacctggg gcccacggg cgctctctcc gcgggcatga ccagtccgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac acccgggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga acctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 743  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 743
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120
cgagtcgag gacggagccc cgggcgccat ggatagagca ggagggggccg gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300
gcgacctggg gcccacggg cgctctctcc gcgggcatga ccagtccgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac acccgggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 744  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 744
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120
cgagtcgag gacggagccc cgggcgccat ggatagagca ggagggggccg gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300
gcgacctggg gcccacggg cgctctctcc gcgggcatga ccagtccgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac acccgggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 745  
 <211> 548  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (547)..(547)  
 <223> n is a, c, g, or t

```

<400> 745
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60

```

gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcccacat ggatagagca ggagggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg gcctcctcc gcgggcatga ccagttcgcc tacgacggca 360  
 aggattacat gcgcctgaac gaggacctga gctcctggac cgcgccggac acccgggctc 420  
 agatcaccca gcgcaagtgg gagggggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgdna 548

<210> 746  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 746  
 gtcceactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcccacat ggatagagca ggagggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtacggct 300  
 gcgacgtggg gcccgacggg gcctcctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggattacat gcgcctgaac gaggacctga gctcctggac cgcgccggac acccgggctc 420  
 agatcaccca gcgcaagtgg gagggggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 747  
 <211> 912  
 <212> DNA  
 <213> Homo sapiens

<400> 747  
 gggggcagtg gccctgaccg agacctgggc cggtccac tccatgaggt atttctacac 60  
 cgccatgtcc cggcccggcc gcggggagcc ccgcttcac gcagtgggct acgtggacga 120  
 caccagttc gtgaggttcg acagcgacgc cgcgagtcg aggacggagc cccgggcgcc 180  
 atggatagag caggaggggc cggagtattg ggaccggaac acacagatct tcaagacaa 240  
 cacacagact taccgagaga gcctgcgga cctgcgcggc tactacaacc agagcgagge 300  
 cgggtctcac atcatccaga ggatgtatgg ctgcgacctg gggcccgacg ggcgcctcct 360  
 ccgcgggcat gaccagtccg cctgcgacgg caaggattac atgcctga acgaggacct 420  
 gagtctctgg accgcggcgg acaccgcggc tcagatcacc cagcgcaagt gggaggcggc 480  
 ccgtgtggcg gacgagctga gacgtacct ggagggcctg tgcgtggagt ggctccgag 540  
 atacctggag aacgggaagg agacgtgca gcgcgcggac ccccaaaga cacacgtgac 600  
 ccaccacccc gtctctgacc atgaggccac cctgaggtgc tgggccttg gcttctacc 660  
 tgcggagatc aactgacct ggcagcgga tggcgaggac caaactcagg aactgagct 720  
 tgtggagacc agaccagcag gagatagaac ctccagaag tggcgagctg tgggtgtgcc 780  
 ttctggagaa gagcagagat acatgcca tctacagcat gaggggctgc cgaagccct 840  
 caccctgaga tgggagccat ctccagtc caccatcccc atcgtgggca ttgtgtctgg 900  
 cctggctgtc ct 912

<210> 748  
 <211> 1012  
 <212> DNA  
 <213> Homo sapiens

<400> 748  
 atgcgggtca cggcgccccg aacctcctc ctgctgctct ggggggcagt ggccctgacc 60

gagacctggg ctggctcca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
 cgccggggagc cccgcttcat cgagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgagagtc gaggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacct ggggcccggc ggggcctcc tccggggca tgaccagtc 420  
 gcctacgacg gcaaggatta catgcccctg aacgaggacc tgagctcctg gaccgcgcg 480  
 gacaccgagg ctacagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgctgc agcgcgagg ccccccagg acacacgtga cccaccacc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggcccctg ggcttctacc ctgaggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttcccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctactgtg atgtgtagga ggaagagctc ag 1012

<210> 749  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 749  
 atcggggtca cggcgcccc aaccgtctc ctgctgtctt ggggggcagt ggccctgacc 60  
 gagacctggg ctggctcca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
 cgccggggagc cccgcttcat cgagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgagagtc gaggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacct ggggcccggc ggggcctcc tccggggca tgaccagtc 420  
 gcctacgacg gcaaggatta catgcccctg aacgaggacc tgagctcctg gaccgcgcg 480  
 gacaccgagg ctacagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgctgc agcgcgagg ccccccagg acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcccctg ggcttctacc ctgaggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttcccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 750  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 750gctccactc catgaggtat ttctacacc ccatgtccc gcccgggcgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag gagggagccc cgggcgcat ggatagagca ggaggggccc gattattggg 180  
 accggaacac acagatctc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgaggcta ctacaaccag agcgaggccc ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctctggac cgcggcggac acggcggctc 420  
 agatcaccca gcgaagtgg gagggggccc gtgaggcgga gcagtggaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgagat acctggagaa cggaaggag acgctgcagc 540  
 gcgagg 546

<210> 751  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 751  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca cccagtctgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cggcgccat ggatagagca ggagggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acccgggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagcggaga gcctacctgg 480  
 agggcctgtg cgtggagtcg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 752  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 752  
 atgcgggtca cggcgccccg aacctcctc ctgtctctt ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctccatgagg tatttcaca cctccgtgtc ccggcccggc 120  
 cgcggggagc ccgcttcat ctcaagtggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggacggag ccccgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 gacctgcgga cctgtctccg ctactacaac cagagcgagg ccgggtctca caccatccag 360  
 aggatgtctg gctgcgacgt ggggcccggac gggcgccctc tccgcggtta taaccagttc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcgcg 480  
 gacaccgcg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcaggac 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcggga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcccgt ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtgtgtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacgca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagct ccaccatccc catcgtgggc attgtgtctg gcctggctgt cctagcagtt 960  
 gtgtcatcg gagctgtggt cgctactgtg atgttagga ggaagagctc aggtgga 1017

<210> 753  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 753  
 atgcgggtca cggcgccccg aacctcctc ctgtctctt ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctccatgagg tatttcaca cctccgtgtc ccggcccggc 120  
 cgcggggagc ccgcttcat ctcaagtggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggacggag ccccgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 gacctgcgga cctgtctccg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aatatgtatg gctgcgacgt ggggcccggac gggcgccctc tccgcggtta ccaccaggac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcccgc 480  
 gacaccgcg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcggga cccccaaag acacacgtga cccaccacc catctctgac 660

catgaggcca ccttgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttcccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgttagga ggaagagctc aggtgga 1017

&lt;210&gt; 754

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 754

atgcgggtca cggcgccccg aacctcctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctccatgagg tatttcaca cctccgtgtc ccggcccggc 120  
 cgcggggagc ccgcttcat ctactgaggc tacgtggacg acaccagtt cgtgagggtc 180  
 gacagcgacg ccgcgagtc gagagcggag ccccgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 gacctgcgga cctgctccg ctactacaac cagagcgagg ccgggtctca caccatccag 360  
 aggatgtctg gctgcgacgt ggggccggac gggcgctcc tcccgggta taaccagttc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgagg ctcagatcac ccagcgcaag tgggaggcgg ccgtgtggc ggagcaggac 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gacacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca ccttgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttcccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgttagga ggaagagctc aggtgga 1017

&lt;210&gt; 755

&lt;211&gt; 619

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 755

atgcgggtca cggcgccccg aacctcctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctccatgagg tatttcaca cctccgtgtc ccggcccggc 120  
 cgcggggagc ccgcttcat ctactgaggc tacgtggacg acaccagtt cgtgagggtc 180  
 gacagcgacg ccgcgagtc gagagcggag ccccgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 gacctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccatccag 360  
 aggatgtctg gctgcgacgt ggggccggac gggcgctcc tcccgggta taaccagttc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgagg ctcagatcac ccagcgcaag tgggaggcgg ccgtgtggc ggagcaggac 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgagg 619

&lt;210&gt; 756

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 756

atgctggtca tggcgccccg aacctcctc ctgctgctct cggcgccct ggccctgacc 60  
 gagacctggg ccggctccca ctccatgagg tatttctaca cctccgtgtc ccggcccggc 120

cgcggggagc cccgcttcat ctacgtgggc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac ttaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca taaccagttc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcgg ctacagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggttctacc ctgcggagat cactctgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagacagaa cttccagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccgtcc catcgtggg attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtgt cgctgctgt atgttagga ggaagagttc aggtgga 1017

&lt;210&gt; 757

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 757

atgtgtgtca tggcgcccc aaccgtctc ctgtgtctt cggcgccct ggccctgacc 60  
 gagacctgg ccggtccca ctcatgagg tattttaca cctcgtgtc ccggcccggc 120  
 cgcggggagc cccgcttcat ctacgtgggc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac ttaccgagag 300  
 aacctgcgga ccgcgtccg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca taaccagttc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcgg ctacagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggttctacc ctgcggagat cactctgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagacagaa cttccagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccgtcc catcgtggg attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtgt cgctgctgt atgttagga ggaagagttc aggtgga 1017

&lt;210&gt; 758

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 758

gctcccactc catgaggtat ttctacacct cgtgtcccg gcccggccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca cgagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cggcgccgt ggaatagaca ggaggggccg gaattattggg 180  
 accggaacac acagatctgc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg gcctcctcc gcgggcataa ccagttcgc tacgacggca 360  
 aggattacat gccttgaaac gaggacctga gctcctggac agcgggcgac acccgggctc 420  
 agatcaccca gcgaagtgg gaggcgcccc gtgtggcgga gcagctgaga acctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 759  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 759  
 gctccactc catgaggtat ttctacacct cgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcactc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gaattattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactga ccgagagagc ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagttcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga acctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 760  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 760 gctccactc catgaggtat ttctacacct cgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcactc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gattattggg 180  
 accgggagac acagatctgc aagaccaaca cacagactta ccgagagaa ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagttcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga acctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 761  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 761  
 gctccactc catgaggtat ttctacaccg cgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcactc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gaattattggg 180  
 accggaacac acagatctgc aagaccaaca cacagactta ccgagagaa ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagttcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga acctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcggaccc cccaaagaca catgtgaccc accacccat ctctgacat gaggccacc 600  
 tgaggtgctg ggcctgggc ttctaccctg cggagatcac actgacctg cagcgggatg 660  
 gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga gacagaacct 720  
 tcagagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac acatgccatg 780  
 tacagcatga ggggctgccg aagccctca cctgagatg gg 822

<210> 762  
 <211> 546  
 <212> DNA



<213> Homo sapiens

<400> 762

```

gctccactc catgaggtat ttctacacct cegtgtcccg gccggccgc ggggagcccc 60
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gattattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagttcgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga acctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

```

<210> 763

<211> 546

<212> DNA

<213> Homo sapiens

<400> 763

```

gctccactc catgaggtat ttctacacct cegtgtcccg gccggccgc ggggagcccc 60
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg ggatattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagttcgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga acctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

```

<210> 764

<211> 546

<212> DNA

<213> Homo sapiens

<400> 764

```

gctccactc catgaggtat ttctacacct cegtgtcccg gccggccgc ggggagcccc 60
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccc cgggcgccgt ggatagagca ggaggggccg gaattattggg 180
accggaacac acagatctgc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagttcgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga acctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

```

<210> 765

<211> 548

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (547)..(547)

<223> n is a, c, g, or t

<400> 765

```

gtccccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcattctc agtgggctac gtggacgaca cgagttcgt gaggttcgac agcgacgccg 120
cgagtcagag agaggagccg cggcgccgt ggatagagca ggaggggccc gaattattggg 180
accggaacac acagatctgc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctctccc gcgggcataa ccagttccc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctctggac cgcgccggag accgcggctc 420
agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagctgaga acctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgdna 548

```

<210> 766

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 766

```

atgttggtca tggcgcccc aaccgtctc ctgtgtctc cggcgccct gccctgacc 60
gagacctggg ccggtccca ctccatgagg tatttttaca cctccgtgc ccggccggc 120
cgcggggagc ccgcttcat ctgagtggc tacgtggac acacgcagtt cgtgaggttc 180
gacagcgacg ccgagagtc gagagaggag ccgcgggcg cgtggataga gcaggagggg 240
ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac tgaccgagag 300
agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca taaccagttc 420
gcctacgacg gcaaggatta catgcacctg aacgaggacc tgagctcctg gaccgcggcg 480
gacaccgagg ctcatcac ccagcgcaag tgggaggcgg ccggtgtggc ggagcagctg 540
agaacctacc tggagggcac gtgcgtggag tggctccgca gatacttga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
tgagacagaa cctccagaa gtgggcagct gtggtgggtg cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgagggcgct ccgaagcccc tcacctgag atgggagcca 900
tcttccagc ccacctccc catcgtggc attgttctg gcttggtgt cctagcagtt 960
gtggtcatcg gagctgtgtg cgctgtgtg atgtgtagga ggaagagttc aggtgga 1017

```

<210> 767

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 767

```

atgttggtca tggcgcccc aaccgtctc ctgtgtctc cggcgccct gccctgacc 60
gagacctggg ccggtccca ctccatgagg tatttttaca cctccgtgc ccggccggc 120
cgcggggagc ccgcttcat ctgagtggc tacgtggac acacgcagtt cgtgaggttc 180
gacagcgacg ccgagagtc gagagaggag ccgcgggcg cgtggataga gcaggagggg 240
ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac tgaccgagag 300
agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca taaccagttc 420
gcctacgacg gcaaggatta catgcacctg aacgaggacc tgagctcctg gaccgcggcg 480
gacaccgagg ctcatcac ccagcgcaag tgggaggcgg ccggtgtggc ggagcagctg 540
agaacctacc tggagggcac gtgcgtggag tggctccgca gatacttga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
tgagacagaa cctccagaa gtgggcagct gtggtgggtg cttctggaga agagcagaga 840

```

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagtc ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 768  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 768  
 gctcccactc catgaggtat ttctacacct ccgtgtcccc gcccgccgc ggggagcccc 60  
 gcttcacttc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag agaggagccc cgggcgcgt ggatagagca ggaggggcca gaatattggg 180  
 accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctccc cggggcataa ccagttccc tacgacggca 360  
 aggattacat gcacctgaac gaggacctga gctcctggac cggcgggac acccgggc 420  
 agatcaccca gcgaagtgg gaggcgccc gtgtggcgga gcagctgaga acctactgg 480  
 agggcacgtg cgtggagtgg ctccgagat acctggagaa cgggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 769  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 769  
 atgtgtgtca tggcgcccc aaccgtctc ctgtgtctt cggcgccct gccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca cctccgtgc ccggcccgc 120  
 cgcggggagc cccgttcat ctcatgggc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgagagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggaatatt gggaccggga gacacagatc tccaagacca acacacagac tgaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggcgggac gggcgctcc tcccgggca taaccagttc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctctg gaccgcggcg 480  
 gacaccgagg ctcatgacac ccagcgcaag tgggaggcgg ccgtgtggc ggagcagctg 540  
 agaacctacc tggagggcac gtgcgtggag tggctccga gatacctgga gaacgggaag 600  
 gagacgtgc agcgccgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgagggtg ctggccctg ggcttctacc ctgcggagat cactctgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagacagaa ccttccagaa gtgggcagct gtgtgtgtg cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagtc ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 770  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 770 atgtgtgtca tggcgcccc aaccgtctc ctgtgtctt cggcgccct gccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca cctccgtgc ccggcccgc 120  
 cgcggggagc cccgttcat ctcatgggc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgagagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggaatatt gggaccggga gacacagatc tccaagacca acacacagac tgaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggcgggac gggcgctcc tcccgggca taaccagttc 420

gcctacgacg gcaaggatta catgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcgg ctcatgtcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagacagaa ccttcagaa gtgggcagct gtggtgtgtc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccgtccc catcgtgggc attgtgtctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgtgtg atgtgttaga ggaagagttc aggtgga 1017

<210> 771  
 <211> 993  
 <212> DNA  
 <213> Homo sapiens

<400> 771  
 gtctctctgc tgctctcggc ggccctggcc ctgaccgaga cctgggcccgg ctcccactcc 60  
 atgaggtatt tctacacctc cgtgtcccgg cccggcccg gggagccccg cttcatctca 120  
 gtgggctacg tggacgacac gcagttcgtg aggttcgaca gcgacgccg gagtccgaga 180  
 gaggagccgc gggcgccgtg gatagagcag gaggggcccgg aatattggga ccggaacaca 240  
 cagatctgca agaccaacac acagactgac cgagagagcc tgcggaacct gcgcggtac 300  
 tacaaccaga gcgagggcgg gtctcacacc ctccagagca tgtacggctg cgacgtgggg 360  
 ccggacgggc gcctctccg cgggcataac cagttcgct acgacggcaa ggattacatc 420  
 gccctgaacg aggacctgag ctctggacc gcggcggaca ccgcggtca gatccaccag 480  
 cgcaagtggg aggcggcccgt tgtggcggag cagctgagaa cctacctgga gggcacgtgc 540  
 gtggagtggc tccgagata cctggagaa ggggaaggaga cgctgcagcg cgcggacccc 600  
 ccaaagacac atgtgaccca ccacccatc tctgacctg aggccaccct gaggtgctgg 660  
 gccctgggct tctacctgc ggagatcaca ctgacctggc agcgggatgg cgaggaccaa 720  
 actcaggaca ccgagcttgt ggagaccaga ccagcaggag acagaacctt ccagaagtgg 780  
 gcagctgtgg tgggtgcttc tggagaagag cagagataca catgcatgt acagcatgag 840  
 gggctgccga agccctcac cctgagatgg gagccatctt ccagtcac cgtcccatc 900  
 gtgggcattg ttgtggcct ggctgtccta gcagttgtg tcatcggagc tgtggtcgt 960  
 gctgtgatgt gtaggaggaa gagttcaggt gga 993

<210> 772  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 772  
 atgtgtgtca tggcgccccg aaccgtctc ctgtgtctt cggcgccct ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
 cgcggggagc ccgcttcat ctactgtggc tacgtggac acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgaggtcc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac tgaccgagag 300  
 agcctgcgga acctgcgctg ctactacaac cagagcgagg cgggtctca caccctcag 360  
 aggtatgtacg gctgcagctt gggcgccgac gggcgctcc tccgcgggca taaccagttc 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcgg ctcatgtcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagacagaa ccttcagaa gtgggcagct gtggtgtgtc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccgtccc catcgtgggc attgtgtctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgtgtg atgtgttaga ggaagagttc aggtgga 1017

<210> 773  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 773  
atgtctggtca tggcgccccg aaccgtcttc ctgtctgtct cgggggccct ggccctgacc 60  
gagacctggg cgggtccca ctccatgagg tatttctaca cctccgtgtc cggccccggc 120  
cgcggggagc cccgcttcat ctcatgtggc tacgtggacg acacgcagtt cgtgaggttc 180  
gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac ttaccgagag 300  
agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
aggatgtacg gctgcgacgt ggggcccggac gggcgctcc tccgcgggca taaccagttc 420  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
gacaccgagg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
catgaggcca cctgaggtg ctgggcccctg ggcttctacc ctgaggagat cacactgacc 720  
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
ggagacagaa ccttcagaa gtgggcagct gtggtgggtc cttctggaga agagcagaga 840  
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
tcttccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
gtggtcatcg gagctgtggt cgctgtgtg atgtgtagga ggaagagttc aggtgga 1017

<210> 774  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 774  
atgtctggtca tggcgccccg aaccgtcttc ctgtctgtct cgggggccct ggccctgacc 60  
gagacctggg cgggtccca ctccatgagg tatttctaca cctccgtgtc cggccccggc 120  
cgcggggagc cccgcttcat ctcatgtggc tacgtggacg acacgcagtt cgtgaggttc 180  
gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac tgaccgagag 300  
agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
acgatgtacg gctgcgacgt ggggcccggac gggcgctcc tccgcgggca taaccagttc 420  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
gacaccgagg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
catgaggcca cctgaggtg ctgggcccctg ggcttctacc ctgaggagat cacactgacc 720  
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
ggagacagaa ccttcagaa gtgggcagct gtggtgggtc cttctggaga agagcagaga 840  
tacacatgcc atgtacagca tgaggggctg ~~ccgaagcccc tcacctgag~~ atgggagcca 900  
tcttccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
gtggtcatcg gagctgtggt cgctgtgtg atgtgtagga ggaagagttc aggtgga 1017

<210> 775  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 775  
atgtctggtca tggcgccccg aaccgtcttc ctgtctgtct cgggggccct ggccctgacc 60  
gagacctggg cgggtccca ctccatgagg tatttctaca cctccgtgtc cggccccggc 120  
cgcggggagc cccgcttcat ctcatgtggc tacgtggacg acacgcagtt cgtgaggttc 180  
gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240

ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac tgaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg cgggtctca cacttggcag 360  
 acgatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggca taaccagttc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agaacctacc tggaggggac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagacagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccgtccc catcgtgggc attgttctg ccttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgttaga ggaagagttc aggtgga 1017

&lt;210&gt; 776

&lt;211&gt; 413

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 776

ggttcgacag cgacccgcg agtccgagag aggagccgcg ggcgccgtgg atagagcagg 60  
 agggggccgga atattgggac cggaacacac agatctgcaa gaccaacaca cagacttacc 120  
 gagagagcct gcggaacctg cgcggtact acaaccagag cgaggccggg tctcacacc 180  
 tccagaggat gtacggctgc gacgtgggac cggaacggcg cctctccgc ggcatgacc 240  
 agtccgcta cgacggcaag gattacatc cctgaacga ggacctgagc tcttgaccg 300  
 cgccggacac cgcggtcag atcaccagc gcaagtggga ggcggcccgt gtggcgagc 360  
 agctgagaac ctacctggag ggcacgtgcg tggagtggct ccgagatac ctg 413

&lt;210&gt; 777

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 777

atgtgtgtca tggcggcccg aaccgtctc ctgctgtct cggcggccct ggccctgacc 60  
 gagacctggg ccggctccca ctccatgagg tatttctaca cctccgtgtc ccggcccggc 120  
 cgccgggagc cccgttcat ctacgtgggc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgagagtc gagagaggag ccgcggcgcg cgtggataga gcaggagggg 240  
 ccggaatatt gggaccggga cacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg cgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca taaccagttc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagcgg 540  
 agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagacagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccgtccc catcgtgggc attgttctg ccttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgttaga ggaagagttc aggtgga 1017

&lt;210&gt; 778

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 778

atgctgggtca tggcgccccg aaccgtcttc ctgctgctct cggcggccct ggccctgacc 60  
 gagacctggg cgggtcccca ctccatgagg tatttctaca cctccgtgtc cgggccggc 120  
 cgcggggagc cccgcttcat ctcatgggc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac tgaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtctg gctgcgacgt ggggccggac ggggcctcc tccgcgggca taaccagttc 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgagtcctg gaccgcggcg 480  
 gacaccgagg ctcatatc cagcgcaag tgggaggcgg ccggtgtggc ggagcagctg 540  
 agaacctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagacagaa cttccagaa gtgggcagct gtgtgtgtc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttcccagt ccaccgtcc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtgtcatcg gagctgtgtt cgctgctgtg atgtgtagga ggaagagttc aggtgga 1017

&lt;210&gt; 779

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 779

atgctgggtca tggcgccccg aaccgtcttc ctgctgctct cggcggccct ggccctgacc 60  
 gagacctggg cgggtcccca ctccatgagg tatttctaca cctccgtgtc cgggccggc 120  
 cgcggggagc cccgcttcat ctcatgggc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc tacaagacca acacacagac tgaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggccggac ggggcctcc tccgcgggca taaccagttc 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgagtcctg gaccgcggcg 480  
 gacaccgagg ctcatatc cagcgcaag tgggaggcgg ccggtgtggc ggagcagctg 540  
 agaacctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagacagaa cttccagaa gtgggcagct gtgtgtgtc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttcccagt ccaccgtcc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtgtcatcg gagctgtgtt cgctgctgtg atgtgtagga ggaagagttc aggtgga 1017

&lt;210&gt; 780

&lt;211&gt; 677

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 780tacacctccg tgtcccgcc cgcccgagg gagccccgt tcattctagt gggctacgtg 60  
 gacgacagc agttcgtgag gttcgacagc gacccgca gtcgagaga ggagccggc 120  
 gcgccgtgga tagagcagga ggggccggaa tattgggacc ggaacacaca gatctgaag 180  
 accaacacac agacttacg agagagcctg cggaacctgc gcggtacta caaccagagc 240  
 gaggccgggt ctacacctt ccagaggatg tacggctgag acgtggggcc ggacgggcgc 300  
 ctctccgagc ggcataacca gttgcctac gacggcaagg attacatgc cctgaacgag 360  
 gacctgagct cctggaccgc ggcggacacc gcggctcaga tcaccagcg caagtgggag 420  
 gcggccgtg tggcgagca gcggagaacc tacctggagg gcacgtgct ggagtggctc 480  
 cgcagatacc tggagaacgg gaaggagacg ctgcagcgc cggaaccccc aaagacacat 540  
 gtgaccacc acccatctc tgaccatgag gccacctga ggtgctggc cctgggcttc 600

taccctgcgg agatcacact gacctggcag cgggatggcg aggaccaaac tcaggacacc 660  
gagcttgtgg agaccag 677

<210> 781  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 781  
gctccactc catgaggtat ttgacaccg ccgtgtccc gcccggccgc ggagagcccc 60  
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
cgagtcggag agaggagccg cgggcgccgt ggatagagca ggagggggccg gaattattggg 180  
accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
tgccgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttcgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctga gctcctggac cgcgccggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga acctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcgcgg 546

<210> 782  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 782  
gctccactc catgaggtat ttctacacct ccgtgtccc gcccggccgc ggggagcccc 60  
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
cgagtcggag agaggagccg cgggcgccgt ggatagagca ggagggggccg gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgccgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttcgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctga gctcctggac cgcgccggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga acctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcgcgg 546

<210> 783  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 783  
gctccactc catgaggtat ttctacacct ccgtgtccc gcccggccgc ggggagcccc 60  
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
cgagtcggag agaggagccg cgggcgccgt ggatagagca ggagggggccg gaattattggg 180  
accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
tgccgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttcgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctga gctcctggac cgcgccggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga acctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcgcgg 546

<210> 784  
<211> 546



&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 784

```
gctccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcactc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gaattattggg 180
accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagttcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga acctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546
```

&lt;210&gt; 785

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 785

```
gctccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcactc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
accggaacac acagatctac aagaccaaca cacagactga ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccacagg atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagttcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga acctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546
```

&lt;210&gt; 786

&lt;211&gt; 619

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 786

```
atgctggtea tggcgcccc aaccgtctc ctgctgctct cggcgccct ggccctgacc 60
gagacctggg cgggtccca ctccatgagg tatttctaca cctccgtgtc ccggcccgcc 120
cgcggggagc cccgttcat ctacgtgggc tacgtggacg acacgcagtt cgtgagggtc 180
gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacagatc tacaagacca acacacagac tgaccgagag 300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggcccggac gggcgccctc tccgcgggta taaccagtta 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540
agaacctacc tggagggcac gtgcgtggag tggctccgca gatacttga gaacgggaag 600
gagacgctgc agcgccgg 619
```

&lt;210&gt; 787

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 787

```
gctccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60
```

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gaattattggg 180  
 accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagttcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga acctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

&lt;210&gt; 788

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 788

gctccactc catgaggtat ttctacacct ccgtgtcccgc gcccgccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gattattggg 180  
 accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagttcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga acctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

&lt;210&gt; 789

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 789

gctccactc catgaggtat ttctacacct ccgtgtcccgc gcccgccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gattattggg 180  
 accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagttcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga acctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

&lt;210&gt; 790

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 790gctccactc catgaggtat ttctacacct ccgtgtcccgc gcccgccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gaattattggg 180  
 accgggagac acagatctgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagttcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga acctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcgcgg 546

<210> 791  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 791  
gtccccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
gttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180  
accgggagac acagatctc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttccc tacgacggca 360  
aggattacat cgcctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420  
agatcacccg gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga acctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcgcgg 546

<210> 792  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 792  
atgtcgttca tggcgccccg aaccgtctc ctgtgtctt cggcgccct gccctgacc 60  
gagacctggg ccggtccca ctccatgagg tattctaca cctcgtgtc ccggcccgcc 120  
cgcggggagc ccgcttcat ctcatgggc tacgtggac acacgcagtt cgtgaggttc 180  
gacagcgac ccgagagtc gagagaggag ccgcgccgc cgtggataga gcaggagggg 240  
ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac tgaccgagag 300  
agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
gacacgtacg gctcgcaggt ggggcggac gggcgcctc tccgcggca taaccagttc 420  
gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctctg gaccgcggcg 480  
gacaccgagg ctcatcac ccagcgcaag tgggaggcgg ccggtgtggc ggagcagctg 540  
agaacctacc tggagggcac gtgcgtggag tggtccgca gatactgga gaacgggaag 600  
gagacgtgc agcgcggga cccccaaag acacatgtga cccaccacc catctctgac 660  
catgaggcca cctgaggtg ctgggcctg ggcttctacc ctgcggagat cacttgacc 720  
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
ggagacagaa cctccagaa gtgggcagct gtgtgtgtc cttctggaga agagcagaga 840  
tacacatgcc atgtacagca tgaggggctg ccgaagccc tcacctgag atgggagcca 900  
tcttccagt ccacctccc catcgtggc attgtgtctg gcctggctgt ctagcagtt 960  
gtgtcatcg gagctgtgtg cgctgtgtg atgttagga ggaagagttc aggtgga 1017

<210> 793  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 793  
gtccccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
gttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gaattattggg 180  
accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttccc tacgacggca 360  
aggattacat cgcctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420

agatcaccca ggcgaagtgg gagggggccc ttgtggcgga gcagctgaga acctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 794  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 794  
 gtcctcactc catgaggtat ttctacacct cgtgtcccc gccggccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca gcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gaattattggg 180  
 accggaacac acagatctgc aagaccaaca cacagactga ccgagtgagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg gcctcctcc ggggcataa ccagttcgcc tacgacggca 360  
 aggattacat gcctcgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca ggcgaagtgg gagggggccc ttgtggcgga gcagctgaga acctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 795  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 795  
 atgcgggtca cggcaccccg aaccgtctc ctgtctctct cggcgccct gccctgacc 60  
 gagacctggg cgggctccca ctccatgagg tatttcaca ccgcatgtc ccggcccgcc 120  
 cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgagct ggggcgggac gggcgccctc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgcccg 480  
 gacacggcgg ctcatctc ccagcgcaag ttggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gacaagctgg agcgcgtga cccccaaag acacagtgta cccaccacc catctctgac 660  
 catgaggcca cctgagggtg ctgggcccctg ggtttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagc ccacctccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgtgtg atgtgtagga ggaagagttc aggtgga 1017

<210> 796  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 796  
 atgcgggtca cggcaccccg aaccgtctc ctgtctctct cggcgccct gccctgacc 60  
 gagacctggg cgggctccca ctccatgagg tatttcaca ccgcatgtc ccggcccgcc 120  
 cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360

aggatgtacg gctgcgacgt ggggcccggac gggcgccctcc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgccgcg 480  
 gacacggcgg ctcatatctc ccagcgcaag ttggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gacaagctgg agcgcgctga cccccaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggtttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagt ccaccgtccc catcgtgggc attgttctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagtc aggtgga 1017

&lt;210&gt; 797

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 797

gctccactc catgaggtat ttccacaccg ccatgtcccg gccggccgc ggggagcccc 60  
 gtttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtcgag gaaggagccg cggcgccgt ggatagagca ggaggggccg gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcggcataa ccagtacgcc tacgacggca 360  
 aggtattcat cgccctgaac gaggacctgc gctcctggac cgccgaggac acggcggtc 420  
 agatctccca gcgaagttg gaggcggccc gtgtggcgga gcagctgaga gctacctgg 480  
 agggcgagt cgtggagtgg ctccgagat acctggagaa cggaaggac aagctggagc 540  
 gcgctgacct cccaagaca cacgtgacct accaccat ctctgacct gaggccacct 600  
 tgaggtgctg ggcctgggt ttctacctg cggagatcac actgacctg cagcgggatg 660  
 gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga gatagaacct 720  
 tccagaagt ggacgtgtg gtggtgcct ctggagaaga gcagagatac acatgccatg 780  
 tacagcatga ggggtgccc aagccctca cctgagatg gg 822

&lt;210&gt; 798

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 798

atcggggtca cggcggccc aacctctc ctgctgctt ggggggcagt ggcctgacc 60  
 gagacctggg ctggctcca ctccatgagg tatttcaca cctcgtgtc ccggccggc 120  
 cgcggggagc cccgttcat caccgtggg tacgtggacg acacgtgtt cgtgaggtc 180  
 gacagcgac ccacgagtc gaggaaggag ccgcgggcg catgatatga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagaca ~~acacacagac~~ ttaccgagag 300  
 agcctgcgga acctgcggg ctactacaac cagagcgagg ccgggtctca cacctccag 360  
 agcatgtacg gctgcgacgt ggggcccggac gggcgccctcc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgccg 480  
 gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcggga cccccaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggtttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagt ccaccgtccc catcgtgggc attgttctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagtc aggtgga 1017

<210> 799  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 799  
 atgcggtca cggcgccccg aacctctc ctgctgctct ggggggcagt ggcctgacc 60  
 gagacctggg ctggtccca ctccatgagg tatttccaca cctccgtgtc cggcccggc 120  
 cgcgggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgacgt ggggccggac gggcgctcc tccgaggga tgaccagtcc 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcctg gaccgccgcg 480  
 gacacggcgg ctacatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacttgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtgtgct cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagc ccaccgtccc catcgtgggc attgtgtctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 800  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 800atgcggtca cggcgccccg aacctctc ctgctgctct ggggggcagt ggcctgacc 60  
 gagacctggg ctggtccca ctccatgagg tatttccaca cctccgtgtc cggcccggc 120  
 cgcgggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacct ggggccggac gggcgctcc tccgaggga taaccagtac 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcctg gaccgccgcg 480  
 gacacggcgg ctacatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacttgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtgtgct cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagc ccaccgtccc catcgtgggc attgtgtctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 801  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 801  
 atgcggtca cggcgccccg aacctctc ctgctgctct ggggggcagt ggcctgacc 60  
 gagacctggg ctggtccca ctccatgagg tatttccaca cctccgtgtc cggcccggc 120  
 cgcgggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgacgt ggggccggac gggcgctcc tccggggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgccg 480  
 gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga ccaccaccc catctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttcccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgttagga ggaagagctc aggtgga 1017

<210> 802  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 802  
 atgcgggtca cggcgccccg aacctcctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctccatgagg tatttcaca cctccgtgtc ccggcccggc 120  
 cgcggggagc cccgcttcac caccgtgggc tacgtggacg acacgtgtt cgtgagggtc 180  
 gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 acgatgtatg gctgcgacgt ggggccggac gggcgctcc tccggggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgccg 480  
 gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga ccaccaccc catctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttcccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgttagga ggaagagctc aggtgga 1017

<210> 803  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 803  
 atgcgggtca cggcaccccg aaccgtctc ctgctgctct cggcggcct ggccctgacc 60  
 gagacctggg ccggctccca ctccatgagg tatttcaca ccgcatgtc ccggcccggc 120  
 cgcggggagc cccgcttcac caccgtgggc tacgtggacg acacgtgtt cgtgagggtc 180  
 gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccggggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgccg 480  
 gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gacaagctgg agcgcgctga cccccaaag acacacgtga ccaccaccc catctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900

tcttccagtc ccaccgtccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960  
gtggcatcgc gagctgtggt cgctgctgtg atgtgttagga ggaagagttc aggtgga 1017

<210> 804  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 804  
atgcgggtca cggcgccccg aacctcctc ctgctgctct ggggggcagt ggcctgacc 60  
gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc cggccccgc 120  
cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggtc 180  
gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga gcaggagggg 240  
ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag 300  
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
agcatgtacg gctgcgacgt ggggcccggc gggcgccctc tccgcgggca taaccagtac 420  
gcctacgacg gcaaggatta catgccctg aacgaggacc tgcgtcctg gaccgccgcg 480  
gacacggcgg ctacatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
agagcctacc tggagggcga gtgcgtggag tggtccgca gatactgga gaacgggaag 600  
gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
catgaggcca cctgaggtg ctggccctg ggtctctacc ctgcggagat cactctgacc 720  
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
tacacatgcc atgtacagca tgaggggctg ccgaagccc tcacctgag atgggagccg 900  
tcttccagtc ccaccgtccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960  
gtggcatcgc gagctgtggt cgctgctgtg atgtgttagga ggaagagctc aggtgga 1017

<210> 805  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 805  
gtctccactc catgaggtat ttccacacct ccgtgtccc gcccggccgc ggggagcccc 60  
gtctcatcac ctggggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
cgagtcgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgccgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccagtacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctctggac cgcccgggac acggcggctc 420  
agatcaccca gcgcaagtgg gagggggccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

<210> 806  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 806  
gtctccactc catgaggtat ttctacaccg ccagtgtccc gcccggccgc ggggagcccc 60  
gtctcatcgc agtgggctac gtggacgaca cgagttcgt gaggttcgac agcgacgcca 120  
cgagtcgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgccgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctctggac cgcccgggac acggcggctc 420



agatctcca ggcgaagttg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 807  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 807  
 gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggttac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtcgag gaaggagccg cgggcgcat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gcgggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcctggac cgccgaggac acggcggtc 420  
 agatcaccca ggcgaagttg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgagg 546

<210> 808  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

<400> 808  
 atgcgggtca cggcgccccg aaccgtctc ctgtctctt cgggagccct ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
 cgcggggagc ccgcttcat ctactgggc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgagagtc gagagaggag ccgcgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggcccggc gggcgctcc tccgaggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgcccgc 480  
 gacacggcgg ctcatctc ccagcgcaag ttggaggcgg ccggtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gacaagctgg agcgcgctg 619

<210> 809  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

<400> 809  
 atgcgggtca cggcgccccg aaccctctc ctgtctctt ggggggcagt ggccctgacc 60  
 gagacctggg ctggtccca ctccatgagg tatttccaca cctccgtgtc ccggcccggc 120  
 cgcggggagc ccgcttcat caccgtggg tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 aacctgcgga tgcgctccg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgacgt ggggcccggc gggcgctcc tccgaggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgcccgc 480  
 gacacggcgg ctcatctc ccagcgcaag ttggaggcgg ccggtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcg 619

<210> 810  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 810  
gctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gâgtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctgc gctcctggac cgcggcggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
gcgctg 546

<210> 811  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 811  
gctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gâgtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctgc gctcctggac cgcggcggac acggcggctc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
gcgctg 546

<210> 812  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 812  
gctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gâgtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctgc gctcctggac cgcgcggac acggcggctc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480  
agggcgagtg cgtggattgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
gcgctg 546

<210> 813  
<211> 619  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 813

```

atgcgggtca cggcaccg aaccgtctc ctgtgtctt cggcggcct ggcctgacc 60
gagacctggg cgggtccca ctccatgagg tatttccaca ccgcatgtc cggcccggc 120
cgcggggagc cccgttcat caccgtggg tacgtggacg acacgtgtt cgtgaggtt 180
gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catgtaga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgagg ctactacaac cagagcgagg cgggtctca caccctccag 360
agcatgtacg gctgcgacgt ggggcccggac ggggcctcc tccgcgggca taaccagtac 420
gcctacgacg gcaaggatta catgccctg aacgaggacc tgcgtcctg gaccgccgcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagcgg 540
agagcctacc tggaggcgga gtgcgtggag tggctccga gatacctgga gaacgggaag 600
gacaagctgg agcgcgctg 619

```

&lt;210&gt; 814

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 814

```

gctccactc catgaggtat ttccacacct ccgtgtccc gcccggccgc ggggagcccc 60
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcagcgcca 120
cgagtccgag gaaggagcgg cgggcgcat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggtca ctacaaccag agcagggccg ggtctcacac cctccagagc atgtacggct 300
gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctgc gctcctggac cgccgaggac acggcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtggt ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

&lt;210&gt; 815

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 815

```

gtccactc catgaggtat ttccacacct ccgtgtccc gcccggccgc ggggagcccc 60
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcagcgcca 120
cgagtccgag gaaggagcgg cgggcgcat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaa ctgcggatcg 240
cgctccgcta ctacaaccag agcagggccg ggtctcacac cctccagagc atgtacggct 300
gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctgc gctcctggac cgccgaggac acggcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtggt ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

&lt;210&gt; 816

&lt;211&gt; 619

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 816

```

atgcgggtca cggcgcccc aaccctctc ctgtgtctt ggggggcagt ggcctgacc 60
gagacctggg ctggtccca ctccatgagg tatttccaca cctccgtgc cggcccggc 120
cgcggggagc cccgttcat caccgtggg tacgtggacg acacgtgtt cgtgaggtt 180
gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catgtaga gcaggagggg 240

```

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgccgcg 480  
 gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggaggggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcg 619

<210> 817  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 817  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcctggac cgccgaggac acggcggtc 420  
 agatcacca gcgcaagtgg gaggcgccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 cgctg 546

<210> 818  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

<400> 818  
 atgcgggtca cggcaccccc aaccgtctc ctgctgctct cggcgccct gccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttccaca ccgcatgtc ccggcccggc 120  
 cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggtc 180  
 gacagcgacg ccacgagtcc gaggaaggag ccgcgggcg catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgccgcg 480  
 gacacggcgg ctcagatctc ccagcgcaag tgggaggcgg cccgtgaggc ggagcagcgg 540  
 agagcctacc tggaggggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gacaagctgg agcgcgctg 619

<210> 819  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 819  
 gctccactc catgaggtat ttccacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gttcatcac cgtgggctac gtggacgaca cgctgtcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacctggg gccgcacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcctggac cgccgaggac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcagctgaga gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
gcgcgg 546

<210> 820  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 820  
gctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
cgagtcagag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgaggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgctcctcc gccggcataa ccagtacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgaggac acggcggtc 420  
agatctccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac aagctggagc 540  
gcgctg 546

<210> 821  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 821  
gctccactc catgaggtat ttccacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
cgagtcagag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgaggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgctcctcc gccggcataa ccagtacgcc tacgacggca 360  
aagattacat cgccctgaac gaggacctga gctcctggac cgccgaggac acggcggtc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
gcgcgg 546

<210> 822  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 822  
gctccactc catgaggtat ttccacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
cgagtcagag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgaggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgctcctcc gccggcataa ccagaacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgaggac acggcggtc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
gcgcgg 546

<210> 823  
<211> 546

<212> DNA  
<213> Homo sapiens

<400> 823  
gctccactc catgaggtat ttccacacct cgtgtcccgc gcccgccgc ggggagcccc 60  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgccgggcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtatggct 300  
gcgacctggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
aagattacat cgccctgaac gaggacctga gctctggac cgccggcgac accgcggctc 420  
agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagctgaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

<210> 824  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 824  
gctccactc catgaggtat ttccacacct cgtgtcccgc gcccgccgc ggggagcccc 60  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgccgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
gcgacctggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctctggac cgccggcgac accgcggctc 420  
agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

<210> 825  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 825  
gctccactc catgaggtat ttccacaccg ccatgtcccgc gcccgccgc ggggagcccc 60  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgccgggcta ctacaaccag agcgaggccg ggtctcatat catccaggtg atgtatggct 300  
gcgacctggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctctggac cgccggcgac accgcggctc 420  
agatctccca gcgcaagttg gagggcgccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
gcgctg 546

<210> 826  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 826  
gctccactc catgaggtat ttccacaccg ccatgtcccgc gcccgccgc ggggagcccc 60  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120

cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gtcctggac cgccgaggac acggcggctc 420  
 agatctccca gcgcaagttg gaggcgggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 827  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 827  
 gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gtcctggac cgccgaggac acggcggctc 420  
 agatcaccga gcgcaagttg gaggcgggccc gtgtggcgga gcagcggaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 828  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 828  
 gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gtcctggac cgccgaggac acggcggctc 420  
 agatctccca gcgcaagttg gaggcgggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 829  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 829  
 gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagtg atgtatggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
 agaattacat cgccctgaac gaggacctgc gtcctggac cgccgaggac acggcggctc 420  
 agatctccca gcgcaagttg gaggcgggccc gtgtggcgga gcagctgaga gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
gcgctg 546

<210> 830  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 830gctccactc catgaggtat ttccacacct ccgtgtccc gcccggccgc ggggagcccc 60  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctga gctcctggac cgccgcgac acggcggtc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

<210> 831  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 831  
gctccactc catgaggtat ttccacaccg ccagtgtccc gcccggccgc ggggagcccc 60  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcgac acggcggtc 420  
agatctccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
gcgctg 546

<210> 832  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 832  
gctccactc catgaggtat ttccacacct ccgtgtccc gcccggccgc ggggagcccc 60  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaa ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcgac acggcggtc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

<210> 833  
<211> 546  
<212> DNA



&lt;213&gt; Homo sapiens

&lt;400&gt; 833

```

gctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtccgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctcctggac gcgcgggac acggcggtc 420
agatctccca gcgaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540
gcgctg 546

```

&lt;210&gt; 834

&lt;211&gt; 912

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 834

```

gggggcagtg gccctgaccg agacctgggc tggctccac tccatgaggt atttcacac 60
ctccgtgtcc cggcccgccc gcggggagcc ccgcttcac accgtgggct acgtggacga 120
cacgtgttc gtgaggttcg acagcgacgc cagagtcg aggaaggagc cgcgggcgcc 180
atggatagag caggaggggc cggagtattg ggaccgggag acacagatct ccaagaccaa 240
cacacagact taccgagaga gcctgcggaa cctgcgcggc tactacaacc agagcgaggc 300
cgggtctcac accctcaga gcatgtacgg ctgcgacgtg gggccggac ggcgcctcct 360
ccgcgggcat aaccagtacg cctacgacgg caaggattac atcgccctga acgaggacct 420
gcgctcctgg accgccgcg acacggcggc tcagatcacc cagcgcaagt gggaggcggc 480
ccgtgtggcg gagcagctga gacgtacct ggagggcacg tgcgtggagt ggctccgag 540
atactggag aacgggaagg agacgtgca gcgcgcggac ccccaaaga cacagtgc 600
ccaccacccc atctctgacc atgaggccac cctgaggtgc tgggccttg gcttctacc 660
tgcggagatc acactgacct ggcagcggga tggcgaggac caaactcagg acactgagct 720
tgtggagacc agaccagcag gagatagaac ctccagaag tgggcagctg tgggtgtgcc 780
ttctggagaa gagcagagat acacatgcca tgtacagcat gaggggctgc cgaagccct 840
caccctgaga tggagccgt ctcccagtc caccgtccc atcgtgggca ttgttgctgg 900
cctggctgtc ct 912

```

&lt;210&gt; 835

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 835

```

gctccactc catgaggtat ttctacacct ccgtgtccc gggccgc ggggagcccc 60
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctcctggac gcgcgggac acggcggtc 420
agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

&lt;210&gt; 836

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 836

```

gctccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc ggggagcccc 60
gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
cgagtcagag gaaggagccg cgggcgccat ggatagagca ggaggggccg gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgccgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctcctcc gcgggtatga ccagtacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac acggcggtc 420
agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540
gcgctg 546

```

&lt;210&gt; 837

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 837

```

gctccactc catgaggtat ttccacaccg ccatgtcccg gcccggccgc ggggagcccc 60
gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
cgagtcagag gaaggagccg cgggcgccat ggatagagca ggaggggccg gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240
tgccgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac acggcggtc 420
agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540
gcgctg 546

```

&lt;210&gt; 838

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 838

```

gctccactc catgaggtat ttccacacct cgtgtcccg gcccggccgc ggggagcccc 60
gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
cgagtcagag gaaggagccg cgggcgccat ggatagagca ggaggggccg gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgccgggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300
gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac acggcggtc 420
agatcaccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

&lt;210&gt; 839

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 839

```

atgcgggtca cggcaccccg aaccgtctc ctgtgtctc cggcgccct ggccctgacc 60
gagacctggg ccggtccca ctccatgagg tatttccaca ccgcatgtc cggcccgcc 120
cgcggggagc cccgttcat caccgtggc tacgtggacg acacgtgtt cgtgaggtc 180

```

gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 aggatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgcggcg 480  
 gacaccgcgg ctcatatcac ccagcgcaag tgggaggcgg ccgtgtggc ggagcaggac 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gacacgctgg agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cctccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag atgggagccg 900  
 tcttccagt ccaccgtcc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 840  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 840  
 atgcgggtca cggcaccg aaccgtctc ctgctgctc cggcggccct ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttccaca ccgcatgtc ccggcccgcc 120  
 cgcggggagc ccgcttcat caccgtggc tacgtggacg acacgtgtt cgtgaggtc 180  
 gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgcggcg 480  
 gacaccgcgg ctcatatcac ccagcgcaag tgggaggcgg ccgtgtggc ggagcaggac 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gacacgctgg agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cctccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag atgggagccg 900  
 tcttccagt ccaccgtcc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 841  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 841  
 gctccactc catgaggtat ttccacaccg ccatgtcccg gccgggcgc ggagagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgtgttctg gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggagggggccg gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggc 300  
 gcgacgtggg gccggacggg cgcctctcc ggggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
 gcgcgg 546

<210> 842

<211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 842  
 gctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcgcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccgacggg cgctcctcc ggggcatga ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac acccgggctc 420  
 agatcaccca gcgcaagtgg gagggggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
 gcgcgg 546

<210> 843  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 843  
 gctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcgcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg atgtatggct 300  
 gcgacgtggg gccgacggg cgctcctcc ggggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac acccgggctc 420  
 agatcaccca gcgcaagtgg gagggggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
 gcgcgg 546

<210> 844  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 844  
 gctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcgcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg atgtatggct 300  
 gcgacgtggg gccgacggg cgctcctcc ggggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac acccgggctc 420  
 agatcaccca gcgcaagtgg gagggggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtgcagc 540  
 gcgcgg 546

<210> 845  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 845  
 atgtgtgtca tggcgcccc aaccgtctc ctgtctctt cggcgccct gccctgacc 60

gagacctggg ccggtccca ctccatgagg tattttctaca cctccgtgtc ccggcccggc 120  
 cgcgggggagc cccgttcat ctcaagtggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caecctccag 360  
 agcatgtacg gctgcgacgt ggggcccggac gggcgctcc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcctg gaccgcggcg 480  
 gacaccggcg ctcatatcac ccagcgcaag tgggaggcgg ccgtgtggc ggagcaggac 540  
 agagcctacc tggagggcac gtgcgtggag tggctccga gatacctgga gaacgggaag 600  
 gacacgttg agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cactctgac 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagt ccacctccc catcgtggc attgttctg gctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtgt cgctgtgtg atgttagga ggaagagctc aggtgga 1017

<210> 846  
 <211> 547  
 <212> DNA  
 <213> Homo sapiens

<400> 846  
 ggctccact ccatgaggta ttccacacc tccgtgtccc ggcccggcg cggggagccc 60  
 cgttcatct cagtgggcta cgtggacgac acccagttcg tgaggttca cagcgacgc 120  
 gcgagtccga gagaggagcc gcgggcgccg tggatagagc agggggggcc ggagtattgg 180  
 gaccggaaca cacagatcta caaggcccag gcacagactg accgagagag cctgcggaac 240  
 ctgcgcggct actacaacca gagcgaggcc gggcttcaca ccctccagag catgtacggc 300  
 tgcgacgtgg ggccggacgg gcgcctctc cgcgggcata accagtacgc ctacgacggc 360  
 aaggattaca tcgcctgaa cgaggacctg cgctcctgga ccgcggcgga caccgcggct 420  
 cagatcacc agcgcaagtg ggaggcgcc cgtgtggcg agcaggacag agcctacctg 480  
 gagggcacgt gcgtggagt gctccgcaga tacctggaga acgggaagga cacgtggag 540  
 cgcgcg 547

<210> 847  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 847  
 gctccactc catgaggtat ttctacacct ccgtgtccc gccggcgccg ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatctac aaggcccgg ~~cacagctga~~ cagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg gcctctctc cggggcataa ccagtacgc tacgacggca 360  
 aggattacat gccttgaa gaggacctgc gctcctggac cgcggcgga accgcggctc 420  
 agatcaccca gcgaagtgg gagcgggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac acgtggagc 540  
 cgcgcg 546

<210> 848  
 <211> 1052  
 <212> DNA  
 <213> Homo sapiens

<400> 848

atgcgggtca cggcgccccg aacctcctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg cgggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccgcc 120  
 cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 aacctgcga ccgctccg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtacg gctgcgacgt ggggcccggac gggcgctcc tccgcggtg tgaccaggac 420  
 gctacgacg gcaaggatta catcgccctg aacgaggacc tgagctctg gaccgcgcg 480  
 gacaccgcg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcaggac 540  
 agagcctacc tggagggcct gtgctggag tgcctccga gatactgga gaacgggaag 600  
 gagacgtgc agcgcgga cccccaaag acacatgtga ccaccaccc catctctgac 660  
 catgaggtca cctgaggtg ctgggcccctg ggcttctacc ctgaggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa cctccagaa gtggcgagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacgca tgaggggctg ccgaagcccc tcacctgag atgggagcgg 900  
 tcttccagt ccaccgtcc catctgggc attgtgtctg gcctggctgt cctagcagt 960  
 gtggtcatcg gagctgtgt cgctgtgtg atgttagga ggaagagtc aggtggactg 1020  
 ctgtgatgtg taggaggaag agtcagggtg ga 1052

<210> 849  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 849  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggtac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcg aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctacat catccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggtatga ccaggacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gtcctggac cgcgcgga acccgggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcctgtg cgtggagtcg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcggaccc ccaaagaca catgtgaccc accacccat ctctgacct gaggtcacc 600  
 tgaggtgtg gccctggg tttacctg cggagatcac actgacctg cagcgggatg 660  
 ccgaggacca aactcaggac accgagctt tggagaccag accagcagga gatagaacct 720  
 tcagaagtg ggagctgtg gtggtgcctt ctggagaaga gcagagatac acatgccatg 780  
 tacagcatga ggggctgccg aagccctca cctgagatg gg 822

<210> 850  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 850 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggtac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctacat catccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggtatga ccaggacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gtcctggac cgcgcgga acccgggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgtcgcgga gcaggacaga gcctacctgg 480  
 agggcctgtg cgtggagtcg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 851

<211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 851  
 atgcgggtca cggcgccccg aacctctctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ccggtctcca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
 cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccacgagtcg gaggaaggag ccgcgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 aacctgcgca ccgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcggtta tgaccaggac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagtcctg gaccgcggcg 480  
 gacaccgagg ctacgatac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tgcctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggtca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtgtgtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagt ccaccgtccc catcgtgggc attgttctg gctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 852  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 852  
 atgcgggtca cggcgccccg aacctctctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ccggtctcca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
 cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccacgagtcg gaggaaggag ccgcgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 aacctgcgca ccgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcggtta tgaccaggac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagtcctg gaccgcggcg 480  
 gacaccgagg ctacgatac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tgcctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggtca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtgtgtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagt ccaccgtccc catcgtgggc attgttctg ~~gtgtgtgt~~ cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 853  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 853  
 atgcgggtca cggcgccccg aacctctctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ccggtctcca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
 cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccacgagtcg gaggaaggag ccgcgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300

aacctgcgca ccgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggta tgaccaggac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcgg ctacatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagcgg 540  
 agagcctacc tggagggcac gtgcgtggag tcgctccgca gatacctgga gaacgggaag 600  
 gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccaccc catctctgac 660  
 catgaggta cctgagggtg ctgggccctg ggcttctacc ctgcggagat cactctgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtgtgct cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagt ccaccgtcc catcgtgggc attgtgtctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgtgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 854  
 <211> 404  
 <212> DNA  
 <213> Homo sapiens

<400> 854  
 ggcgccatgg atagagcagg aggggccgga gtattgggac cgggagacac agatctcaa 60  
 gaccaacaca cagacttacc gagagaacct gcgcaccgcg ctccgtact acaaccagag 120  
 cgaggccggg tctcacatca tccagaggat gtacggctgc gacgtggggc cggacgggcg 180  
 cctcctccg gggtatgacc agtacgcta cgacggcaag gattacatcg cctgaacga 240  
 ggacctgagc tcttgaccg cggcggacac cgcggctcag atcaccagc gcaagtggga 300  
 gggggcccg gtggcggagc aggacagagc ctacctggag ggctgtgctg tggagtcgct 360  
 ccgcagatac ctggagaacg ggaaggagac gctgcagcgc gcgg 404

<210> 855  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

<400> 855  
 atgcgggtca cggcgccccg aacctctc ctgctgtctt ggggggcagt ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccgcc 120  
 cgcggggagc cccgttcat tgagtgaggc tacgtggagc acaccagtt cgtgaggtc 180  
 gacagcgacg ccgcgagtc gaggaaggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggta tgaccaggac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcgg ctacatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcaggac 540  
 agagcctacc tggagggctt gtgcgtggag tcgctccgca gatacctgga gaacgggaag 600  
 gagacgctgc agcgcgcg 619

<210> 856  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 856  
 atgcgggtca cggcgccccg aacctctc ctgctgtctt ggggggcagt ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccgcc 120  
 cgcggggagc cccgttcat caccgtgggc tacgtggagc acacgtgtt cgtgaggtc 180  
 gacagcgacg ccgcgagtc gaggaaggag ccgcgggccc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc ttcaagacca acacacagac ttaccgagag 300  
 aacctgcgca ccgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag 360



```

aggatgtatg gctgcgacgt ggggcccggac gggcgccctcc tccgcgggta tgaccaggac 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540
agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga gaacgggaag 600
gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggta cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900
tcttccagt ccaccgtccc catcggtggc attgttctg gcttggtgt cctagcagtt 960
gtggtcatcg gagctgtggt cgctgctgtg atgtgttaga ggaagagctc aggtgga 1017

```

&lt;210&gt; 857

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 857

```

atgcgggtca cggcgccccg aacctctc ctgctgctt ggggggcagt ggccctgacc 60
gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120
cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgagggtc 180
gacagcgacg ccgcgagtc gaggatggcg cccggggcg catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
aacctgcgca ccgcgctccg ctactacaac cagagcgagg ccgggtctca catcatccag 360
aggatgtacg gctgcgacgt ggggcccggac gggcgccctcc tccgcgggta tgaccaggac 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcaggac 540
agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga gaacgggaag 600
gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggta cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900
tcttccagt ccaccgtccc catcggtggc attgttctg gcttggtgt cctagcagtt 960
gtggtcatcg gagctgtggt cgctgctgtg atgtgttaga ggaagagctc aggtgga 1017

```

&lt;210&gt; 858

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 858

```

atgcgggtca cggcgccccg aacctctc ctgctgctt ggggggcagt ggccctgacc 60
gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120
cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgagggtc 180
gacagcgacg ccacgagtc gaggaaggag ccgcggggcg catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca catcatccag 360
aggatgtacg gctgcgacgt ggggcccggac gggcgccctcc tccgcgggta tgaccaggac 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcaggac 540
agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga gaacgggaag 600
gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggta cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900
tcttccagt ccaccgtccc catcggtggc attgttctg gcttggtgt cctagcagtt 960

```

gtggatcatcg gagctgtggt cgctgctgtg atgtgtaggā ggaagagctc aggtgga 1017

<210> 859  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 859  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
cgagtcgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
cgctccgcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtttggct 300  
gcgacctggg gcccgacggg cgctcctcc gcgggcataa ccagttagcc tacgacggca 360  
aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
gcgcgg 546

<210> 860  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 860  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
cgagtcgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcacc 240  
cgctccgcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtacggct 300  
gcgacctggg gccggacggg cgctcctcc gcgggtatga ccaggacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcaggacaga gcctacctgg 480  
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
gcgcgg 546

<210> 861  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 861  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
cgagtcgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accggaacac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
cgctccgcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtacggct 300  
gcgacctggg gccggacggg cgctcctcc gcgggtatga ccaggacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcaggacaga gcctacctgg 480  
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
gcgcgg 546

<210> 862  
<211> 1017  
<212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 862

```

atgggggtca cggcgccccg aaccctcctc ctgctgctct ggggggcagt ggccctgacc    60
gagacctggg cgggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc    120
cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc    180
gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg    240
ccggagtatt gggagcggga gacacagatc tccaagacca acacacagac ttaccgagag    300
aactgcgca ccgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag    360
aggatgtacg gctgcgagct ggggcccggac gggcgctcc tccggggta tgaccaggac    420
gcttacgacg gcaaggatta catgccttg aacaggagac tgagctcctg gaccgcggcg    480
gacaccgagg ctcatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg    540
agagcctacc tggaggcct gtgcgtggag tcgtccgca gatacctgga gaacgggaag    600
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac    660
catgaggtea cctgagggtg ctgggccctg ggcttctacc ctgcggagat cactctgacc    720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca    780
ggagatagaa cttccagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga    840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg    900
tcttccagc ccacctcc catcgtgggc attgtgtgct gctggctgt cctagcagtt    960
gtgtcatcg gagctgtgt cgtgctgtg atgtgtagga ggaagagctc aggtgga    1017

```

&lt;210&gt; 863

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 863

```

gtcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc    60
gttcatcac cgtgggtac gtggacgaca cgtgttcgt gaggttcgac agcgacgcca    120
cgagtcgag gaaggagccg cgggcgcat ggatagagca ggaggggccc gagtattggg    180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg    240
cgctccgcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtacggct    300
gcgacgtggg gccggacggg gcctctctcc ggggcataa ccaggacgcc tacgacggca    360
aggattacat gccttgaac gaggacctga gctctggac cgcggcggac accgcggctc    420
agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg    480
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgctgcagc    540
gcgcggg                                     546

```

&lt;210&gt; 864

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 864

```

gtcccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc    60
gttcatcac cgtgggtac gtggacgaca cgtgttcgt gaggttcgac agcgacgcca    120
cgagtcgag gaaggagccg cgggcgcat ggatagagca ggaggggccc gagtattggg    180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcgcaccg    240
cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg atgtatggct    300
gcgacctggg gccgcaggg gcctctctcc ggggtataa ccagttagcc tacgacggca    360
aggattacat gccttgaac gaggacctga gctctggac cgcggcggac accgcggctc    420
agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg    480
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgctgcagc    540
gcgcggg                                     546

```

&lt;210&gt; 865

&lt;211&gt; 546

<212> DNA  
<213> Homo sapiens

<400> 865

```

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
cgagtcgag gaaggagccg cgggcgcat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccaggacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctctggac cgcgccggac acccgggctc 420
agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcaggacaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

```

<210> 866  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 866

```

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
cgagtcgag gaaggagccg cgggcgcat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccagtccgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctctggac cgcgccggac acccgggctc 420
agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcaggacaga gcctacctgg 480
agggcctgtg cgtggagtgc ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

```

<210> 867  
<211> 619  
<212> DNA  
<213> Homo sapiens

<400> 867

```

atgcgggtca cggcaccg aaccgtctc ctgtctctt cgcgccctt ggccctgacc 60
gagacctggg ccggctccca ctccatgagg tatttccaca ccgcatgtc ccggcccggc 120
cgcggggagc cccgttcat caccgtggg tacgtggacg acacgtgtt cgtgaggttc 180
gacagcgacg ccacgagtc gaggaaggag ccgcgggcg catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
aacctgcgga tcgctccg ctactacaac cagagcgagg ccgggtctca cacttgccag 360
aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccgcggtta taaccagtta 420
gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctctg gaccgcggcg 480
gacaccgcg ctcagatcac ccagcgcaag tgggaggcg cccgtgtggc ggagcaggac 540
agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacttga gaacgggaag 600
gagacgtgc agcgcgcg 619

```

<210> 868  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 868

```

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60

```

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggtatga ccaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 869  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 869  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggtatga ccaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 870  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 870  
 gctcccactc catgaggtat ttctacaccg ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggtatga ccaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 871  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 871  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccg ggtggagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggtatga ccaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcctgtg cgtggagtgc ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 872  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 872  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgcctcctcc ggggtatga ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcctgtg cgtggagtgc ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 873  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 873  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgcctcctcc ggggtatga ccaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgc ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 874  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 874  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgcctcctcc ggggtatga ccaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcctgtg cgtggagtgc ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcggaccc ccaaaagaca catgtgaccc accacccat ctctgacct gaggccacc 600  
 tgaggtgctg ggccctgggc ttctaccctg cggagatcac actgacctgg cagcgggatg 660  
 gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga gatagaacct 720  
 tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac acatgccatg 780

tacagcatga ggggctgccg aagccccca ccctgagatg gg

822

<210> 875  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 875  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgcat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac acccgggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 876  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 876  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgcat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac acccgggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga acctacctgg 480  
 agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 877  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 877  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgcat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac acccgggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgcggagtcg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 878  
 <211> 895  
 <212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 878

```

atgcgggtca cggcgccccg aacctctctc ctgctgctct ggggggcagt ggcctgacc    60
gagacctggg cgggtccca ctccatgagg tatttctaca ccgcatgtc ccggccggc    120
cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc    180
gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg    240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag    300
aacctgcgca ccgctctccg ctactacaac cagagcgagg ccgggtctca cacctccag    360
aggatgtacg gctgcgacgt ggggcccggc gggcgctcc tccgcgggca taacagtac    420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgcccgc    480
gacacggcgg ctcagatctc ccagcgcaag ttggaggcgg cccgtgtggc ggagcagctg    540
agagcctacc tggaggggcg gtgcgtggag tcgtccgca gatacctgga gaacgggaag    600
gacaagctgg agcgcgtga ccccccag acacacgtga cccaccacc catctctgac    660
catgaggcca cctgagggtg ctgggcccctg ggtttctacc ctgggagat cacttgacc    720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca    780
ggagatagaa cctccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga    840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atggg    895

```

&lt;210&gt; 879

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 879

```

gtctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc    60
gttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca    120
cgagtcagag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg    180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg    240
cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtacggct    300
gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccaggacgcc tacgacggca    360
aggattacat cgccctgaac gaggacctga gtcctggac cgcggcggac acccgggctc    420
agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg    480
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgctgcagc    540
gcgcggg    546

```

&lt;210&gt; 880

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 880

```

gtctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc    60
gttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca    120
cgagtcagag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg    180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg    240
cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtacggct    300
gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccaggacgcc tacgacggca    360
aggattacat caccctgaac gaggacctga gtcctggac cgcggcggac acccgggctc    420
agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg    480
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgctgcagc    540
gcgcggg    546

```

&lt;210&gt; 881

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



&lt;400&gt; 881

```

atgcgggtca cggcaccocg aaccgtctct ctgctgctct cggcggccct ggccctgacc 60
gagacctggg ccggtctcca ctccatgagg tatttccaca ccgcatgtc ccggcccggc 120
cgcggggagc ccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180
gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca cacttggcag 360
aggatgtatg gctgcgacct ggggcccgcg gggcgcctcc tccgaggta taaccagtta 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctctg gaccgcggcg 480
gacaccgcgg ctcatatcac ccagcgcaag tgggaggcgg ccgtgtggc ggagcaggac 540
agagcctacc tggagggcct gtgcgtggag tcgtccgca gatactgga gaacgggaag 600
gagacgtctg agcgcggga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgagggtg ctgggcctg ggcttctacc ctgaggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa ccttcagaa gtgggcagct gtggtgtgct ctctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900
tcttccagt ccaccatccc catctgggc attgttctg gcctggctgt cctagcagtt 960
gtggtcatcg gagctgtggt cgctactgtg atgttagga ggaagagctc aggtgga 1017

```

&lt;210&gt; 882

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 882

```

gtctccactc catgaggtat ttccacaccg ccattgtccg gcccgccgc ggggagcccc 60
gttctatcac cgtgggctac gtggacgaca cgctgttctg gaggttcgac agcgacgcca 120
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg atgtatggct 300
gcgacctggg gcccgacggg cgctctctcc gcgggtataa ccagttccc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctctggac cgggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

```

&lt;210&gt; 883

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 883

```

gtctccactc catgaggtat ttccacaccg ccattgtccg gcccgccgc ggggagcccc 60
gttctatcac cgtgggctac gtggacgaca cgctgttctg gaggttcgac agcgacgcca 120
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg atgtatggct 300
gcgacctggg gcccgacggg cgctctctcc gcgggtataa ccggttagcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctctggac cgggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

```

&lt;210&gt; 884

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 884

```

atgcgggtca cggcaccocg aaccgtcctc ctgetgctct cggcggccct ggccctgacc 60
gagacctggg ccggctccca ctccatgagg tatttccaca ccgcatgtc ccggcccggc 120
cgcggggagc ccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180
gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgcgt ctactacaac cagagcgagg ccgggtctca cacttggcag 360
aggatgtatg cctgcgacct ggggcccagc gggcgccctc tccgcggtta taaccagtta 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagtcctg gaccgcggcg 480
gacaccgagg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcaggac 540
agagcctacc tggagggcct gtgcgtggag tggctccga gatactgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgagggtg ctgggcccctg gcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga caaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtgtgct cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900
tcttcccagt ccaccatccc catcgtgggc attgttctg gctggctgt cctagcagtt 960
gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagtc aggtgga 1017

```

&lt;210&gt; 885

&lt;211&gt; 543

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 885

```

gtctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gttctcatc cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
cgagtcgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgccgggcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg atgtatggct 300
gcgacctggg gcccgacggg cgcctcctcc gcggtataa ccagttagcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcgggcc gtgtggcgga gcaggacaga gtctacctgg 480
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcg 543

```

&lt;210&gt; 886

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 886

```

gtctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gttctcatc cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
cgagtcgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240
tgccgggcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg atgtatggct 300
gcgacctggg gcccgacggg cgcctcctcc gcggtataa ccagttagcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcgggcc gtgtggcgga gcaggacaga gcctacctgg 480
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcg 546

```

&lt;210&gt; 887

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 887

```

atgcggttca cggcgccccg aaccgtcctc ctgtgtctct cgggagccct ggccctgacc 60
gagacctggg cgggtcccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120
cgcgggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gaggatggcg ccccgggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacagac tgaccgagtg 300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggcccggc gggcgccctc tccgcgggca tgaccagtcc 420
gctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtg 540
agagcctacc tggaggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtgtgac cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900
tcttccagc ccacatccc catcgtgggc attgttgcgt gctggtgtgt cctagcagtt 960
gtggtcatcg gagctgtgt cgctactgtg atgtgtagga ggaagagtc aggtgga 1017

```

&lt;210&gt; 888

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 888

```

gctcccactc catgaggtat ttctacaccg ccatgtccc gcccggccgc ggggagcccc 60
gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcagag gatggcgccc cgggcgcat ggatagagca ggaggggccg gagtattggg 180
accgggagac acagaagtac aagcgccagg cacagactgg ccgagtgagc ctgcggaacc 240
tgcgcggtca ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gcggacggg cgctctctcc ggggcatga ccagtcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctctggac cgcggcggac acggcggtc 420
agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

```

&lt;210&gt; 889

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 889

```

atcggggtca cggcgccccg aaccctcctc ctgtgtctct ggggggcagt ggccctgacc 60
gagacctggg ctggtcccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120
cgcgggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180
gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
gacctgcgga cctgtctcc ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtttg gctgcgacgt ggggcccggc gggcgccctc tccgcggtta ccaccaggac 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540
agagcctacc tggaggcgga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660
catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780

```

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tctcccagt ccaccgtccc catcgtgggc attgttctg gcttgctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg gtgtgttaga ggaagagctc aggtgga 1017

<210> 890  
 <211> 904  
 <212> DNA  
 <213> Homo sapiens

<400> 890  
 gcgggtcag gcgccccgaa cctcctcct gctgctctgg ggggcagtgg cctgaccga 60  
 gacctgggct ggctcccact ccatgaggta ttctacacc gccatgtccc ggcccgccg 120  
 cggggagccc cgcttcacat ccgtgggcta cgtggacgac acgctgttcg tgaggttcga 180  
 cagcgacgcc acgagtccga ggaaggagcc gcgggcgcca tggatagagc aggaggggcc 240  
 ggagtattgg gaccgggaga cacagatctc caagaccaac acacagactt accgagagag 300  
 cctgcggaac ctgcgcggct actacaacca gagcgaggcc gggcttcaca cctccagag 360  
 gatgtttggc tgcgacgtgg ggccggacgg gcgcctctc cgcggtacc accaggacgc 420  
 ctacgacggc aaggattaca tcgcctgaa cgaggacctg agctcctgga ccgcccggga 480  
 cacggcggct cagatcacc agcgaagtg ggaggcgcc cgtgtggcgg agcagctgag 540  
 agctacctg gaggcgaggt gcgtggagt gctccgaga tacctggaga acgggaagga 600  
 gacgtgcag cgccgggacc cccaaagac acacgtgacc caccaccca tctctgacca 660  
 tgaggccacc ctgaggtgct gggccctggg cttctaccct gcggagatca cactgacctg 720  
 gcagcgggat ggcgaggacc aaactcagga cactgagctt gtggagacca gaccagcagg 780  
 agatagaacc ttccagaagt gggcagctgt ggtggtgct tctggagaag agcagagata 840  
 cacatgccat gtacagcatg aggggctgcc gaagcccctc acctgagat gggagccgtc 900  
 ttcc 904

<210> 891  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 891  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtcagag gaaggagccg cgggcgcat ggatagagca ggaggggccg gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtttggct 300  
 gcgacgtggg gccggacggg gcctcctcc gcgggtacca ccaggacgcc tacgacggca 360  
 aggattacat gccctgaac gaggacctga gctcctggac cgcccggaac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 892  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 892  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtcagag gaaggagccg cgggcgcat ggatagagca ggaggggccg gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagAAC ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat atgtatggct 300  
 gcgacgtggg gccggacggg gcctcctcc gcgggtacca ccaggacgcc tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgccgaggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtg ctccgagat acctggagaa cgggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 893  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 893  
 atgtgtgtca tggcgccccg aaccgtctc ctgtgtctc cgcgggccct ggccctgacc 60  
 gagacctggg cgggtccca ctccatgagg tatttctaca cctccgtgtc cggccccggc 120  
 cgcggggagc cccgttcat ctgagtggtc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgagagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgagct ggggcccggac gggcgccctc tccgccccga taaccagtac 420  
 gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgtctctg gaccgccgcg 480  
 gacacggcgg ctcatctc ccagcgcaag ttggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccga gatactgga gaacgggaag 600  
 gacaagctgg agcgcgctga cccccaaag acacacgtga ccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcccctg ggtttctacc ctgaggagat cactctgacc 720  
 tggcagcggg atggcgagga ccaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtggacagct gtgtgtgtc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccact ccacctccc catcgtgggc attgtgtctg gctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgtgtgtg atgtgtagga ggaagagttc aggtgga 1017

<210> 894  
 <211> 993  
 <212> DNA  
 <213> Homo sapiens

<400> 894  
 gtctcctgc tgtctcggc ggccctggcc ctgaccgaga cctgggcccg ctccactcc 60  
 atgaggtatt tctacacctc cgtgtcccgg ccgggccgcg gggagccccg cttcatctca 120  
 gtgggctacg tggacgacac ccagttcgtg aggttcgaca gcgacgccg gagtccgaga 180  
 gaggagcccg gggcgccgtg gatagagcag gaggggcccg agtattggga ccgggagaca 240  
 cagatctcca agaccaacac acagacttac cgagagagcc tgcggaacct gcgcggctac 300  
 tacaaccaga gcgaggcccg gtctcacatc atccagagga tgtatggctg cgacctgggg 360  
 ccgacgggc gctcctccg cgggcatgac cagtccgct acgacggcaa ggattacatc 420  
 gccctgaacg aggacctgag ctctggacc gcggcggaaca ccgcggtca gatcaccag 480  
 cgcaagtggg aggcggcccg tgtggcggag cagctgagag cctacctgga gggcctgtgc 540  
 gtggagtggc tccgagata cctggagaac gggaaggaga cgctgcagcg cgcggacccc 600  
 ccaagacac acgtgacca cccccctc tctgacctg aggccacct gaggtgctgg 660  
 gcctgggct tctacctgc ggagatcaca ctgacctggc agcgggatgg cgaggacaa 720  
 actcaggaca ctgagcttgt ggagaccaga ccagcaggag atagaacctt ccagaagtgg 780  
 gcagctgtgg tggtccttc tggagaagag cagagatata catgcatgt acagcatgag 840  
 gggctgccga agccctcac cctgagatgg gagccatctt ccagtcac catccccatc 900  
 gtgggcattg ttgtggcct ggctgtcta gcagttgtg tcatcgagc tgtgtgtcgt 960  
 actgtgatgt gtaggaggaa gagtcaggt gga 993

<210> 895  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 895

```

gctcccactc catgaggtat ttctacacct cegtgtcccg gcccggccgc ggggagcccc 60
gcttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccg cggcgcccg gtatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctcctggac cgcccgggac acggcggtc 420
agatctccca gcgcaagttg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540
gcgctg 546

```

&lt;210&gt; 896

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 896

```

gctcccactc catgaggtat ttctacacct cegtgtcccg gcccggccgc ggggagcccc 60
gcttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccg cggcgcccg gtatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctcctggac cgcccgggac acggcggtc 420
agatctccca gcgcaagttg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcggaacc ccaaagaca cacgtgacct accaccccat ctctgacct gagggcacc 600
tgaggtgctg ggccctgggt ttctaccctg cggagatcac actgacctgg cagcgggatg 660
gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga gatagaacct 720
tcagaagtg gacagctgtg gtggtgcctt ctggagaaga gcagagatac acatgccatg 780
tacagcatga ggggctgccg aagccctca ccctgagatg gg 822

```

&lt;210&gt; 897

&lt;211&gt; 619

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 897

```

atgctggtca tggcgcccc aaccgtctc ctgctgctc cgcgccctt ggccctgacc 60
gagacctggg ccggtccca ctccatgagg tatttctaca ctccgtgtc ccggcccgcc 120
cgcggggagc ccgcttcat.ctccgtgggc tacgtggacg acaccagtt cgtgaggttc 180
gacagcgacg ccgagagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360
agcatgtacg gctgcgacgt ggggcgggac gggcgctcc tccgcgggca taaccagtac 420
gcctacgacg gcaaggatta catgccctg aacgaggacc tgcgtctctg gaccgccgcg 480
gacacggcgg ctacagatcac ccagcgcaag tgggaggcgg ccgtgaggc ggagcagcgg 540
agagcctacc tggaggcgga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gacaagctgg agcgcgctg 619

```

&lt;210&gt; 898

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 898

```

gctcccactc catgaggtat ttctacacct cctgtccccg gcccgccgc ggggagcccc 60
gcttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300
gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagttcgcc tacgacggca 360
aggattacat cgcctgaac gaggacctgc gctcctggac cgccgaggac acggcggtc 420
agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540
gcgctg 546

```

&lt;210&gt; 899

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 899

```

gctcccactc catgaggtat ttctacacct cctgtccccg gcccgccgc ggggagcccc 60
gcttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180
accggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300
gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagttcgcc tacgacggca 360
aggattacat cgcctgaac gaggacctgc gctcctggac cgccgaggac acggcggtc 420
agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540
gcgctg 546

```

&lt;210&gt; 900

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

```

<400> 900atgcegggtca cggcaccgc aaccgtctc ctgtctctc cggcgccct ggcctgacc 60
gagacctggg ccggtccca ctccatgagg tatttccaca ccgcatgtc ccggccggc 120
cgcggggagc ccgcttcat caccgtggg tacgtggac acagctgtt cgtgaggtt 180
gacagcgagc ccagagtc gaggaaggag ccgcgggcg catggataga gcaggaggg 240
ccggagtatt ggagaccgga gacacagatc tccaagacca acacacagac ttaccgagag 300
aacctgcgga tcgctctcg ctactacaac cagagcgagg ccgggtctca cacttggcag 360
aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccgcggtg taaccagtta 420
gcctacgagc gcaaggatta catgccttg aacgaggacc tgagctctg gaccgcgcg 480
gacaccgagg ctcatcac ccagcgcaag tgggaggcgg ccggtgaggc ggagcagctg 540
agagcctacc tggagggcct gtgcgtggag tggctccga gatactgga gaacgggaag 600
gagacgtgc agcgcgga ccccaaaag acacagtc cccacacc catctctgac 660
catgaggcca ccctgaggtg ctgggccctg gcttctacc ctgcggagat cacactgac 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cctccagaa gtgggcagct gtgggtgtc ctctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagccc tcacctgag atgggagcca 900
tcttccagt ccacatccc catcgtggc attgttctg gctggctgt cctagcagtt 960
gtgtcatcg gagctgtgt cgtactgtg atgtgtagga ggaagagctc aggtgga 1017

```

&lt;210&gt; 901

&lt;211&gt; 820

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 901

tcccactcca tgaggtatatt ccacaccgcc atgtcccggc cggccgcgg ggagccccgc 60  
 ttcacaccg tgggctacgt ggacgacag ctgttcgtga ggttcgacag cgacgccacg 120  
 agtccgagga aggagccgcg ggcccatgg atagagcagg aggggcccga gtattgggac 180  
 cgggagacac agatctccaa gaccaacaca cagacttacc gagagaacct gcgcaccgcg 240  
 ctccgtact acaaccagag cgaggccggg tctcacactt ggcagaggat gtatggctgc 300  
 gacctggggc ccgacgggcg cctctccgc gggataacc agttagccta cgacggcaag 360  
 gattacatcg ccctgaacga ggacctgagc tctggaccg cggcggacac cgcggtcag 420  
 atcaccagc gcaagtggga ggccggccgt gaggcggagc agctgagagc ctacctggag 480  
 ggctgtgctg tggagtggct ccgcagatac ctggagaacg ggaaggagac gctgcagcgc 540  
 gcggacccc caaagacaca tgtgaccac caccatct ctgacctga ggccacctg 600  
 aggtgtggg ccctgggctt ctacctgcg gagatcacac tgacctggca gcgggatggc 660  
 gaggacaaa ctcaggacac cgagctgtg gagaccagac cagcaggaga tagaaccttc 720  
 cagaagtggg cagctgtgtt ggtgccttct ggagaagagc agagatacac atgcatgta 780  
 cagcatgagg ggctccgaa gccctcacc ctgagatggg 820

<210> 902  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 902  
 gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgcat ggatagagca ggaggggccg gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg atgtatggct 300  
 gcctacctggg gcccgacggg cgctctctcc cgggtataa ccagttagcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 903  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 903  
 atgcgggtca cggcaccccg aaccgtctc ctgctgctct cggcgccct ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttcaca ccgcatgtc ccggcccggc 120  
 cgcggggagc ccgcttcat caccgtggc tacgtggac acacgtgtt cgtgaggttc 180  
 gacagcgac ccacgagtc gaggaaggag ccgcccgcg catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccgcggtta taaccagtta 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctctg gaccgcggcg 480  
 gacaccgcgg ctcatatcc ccagcgcaag tgggaggcgg ccgctgaggg ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccga gatactgga gaacgggaag 600  
 gagacgtgc agcgcgga ccccccagg acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcccct ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtgtgtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacgca tgaggggctg ccgaagccc tcacctgag atgggagcca 900  
 tctccagc caccatccc catgtggc attgtgtg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtgtt cgctactgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 904  
 <211> 1017



&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 904

```

atgcgggtca cggcaccocg aaccgtctc ctgctgctct cggcggccct ggcctgacc 60
gagacctggg ccggtccca ctccatgagg tatttccaca ccgcatgtc ccggcccggc 120
cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180
gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgacg ctactacaac cagagcgagg ccgggtctca cacttggcag 360
aggatgtatg gctgcgacct ggggcccgcg gggcgctcc tcccgggta taaccagtta 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcgcg 480
gacaccgagg ctcatgtac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540
agagcctacc tggaggcct gtgcgtggag tcgtccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgagggtg ctgggcctg ggcttctacc ctgcggagat cacttgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa ctttcagaa gtgggcagct gtgggtgtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc taccctgag atgggagcca 900
tcttccagt ccaccatcc catcgtggc attgtgtgtg gcttggtgt cctagcagtt 960
gtggatcatg gagctgtgtg cgctactgtg atgtgtagga ggaagagtc aggtgga 1017

```

&lt;210&gt; 905

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 905

```

gtctccactc catgaggtat ttccacaccg ccatgtccc gcccggccgc ggggagcccc 60
gtttcatcac cgtgggttac gtggacgaca cgctgtctgt gaggttcgac agcgacgcca 120
cgagtcaggag gaaggagccg cgggcgccat ggatagagca ggaggggcgg gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgccgggcta ctacaaccag agcgaggcgg ggtctcacac ttggcagagg atgtacggct 300
gcgacgtggg gcccgacggg cgctctctcc ggggtataa ccagttagcc tacgacggca 360
aggattacat cgccctgaac gaggaactga gctctggac cgcggcggac accgcggtc 420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctcccgagat acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

```

&lt;210&gt; 906

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 906

```

atgcgggtca cggcgccccg aaccgtctc ctgctgctct ggggggcagt ggcctgacc 60
gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120
cgcggggagc cccgttcat tgcatgggc tacgtggacg acaccagtt cgtgaggttc 180
gacagcgacg ccgagagtc gaggacggag cccggggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac ttaccgagag 300
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca cacttggcag 360
acgatgtatg gctgcgacgt ggggcccgcg gggcgctcc tcccgggca taaccagtac 420
gcctacgacg gcaagatta catcgccctg aacgaggacc tgagctcctg gaccgcgcg 480
gacaccgagg ctcatgtac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540
agagcctacc tggaggcct gtgcgtggag tggctccgca gacacctgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc cgtctctgac 660
catgaggcca cctgagggtg ctgggcctg ggcttctacc ctgcggagat cacttgacc 720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780

```

ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 907  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 907  
 atcggggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ccggtcccca ctccatgagg tattttctaca ccgcatgtc ccggcccggc 120  
 cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtcg gaggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccgga caccagatc ttaagacca acacacagac ttaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 acgatgtatg gtcgcagct ggggcccggc gggcgctcc tccggggca taaccagtac 420  
 gcctacgacg gaaagatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccggcg ctcatgacac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gacacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga ccaccaccc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggcccgt ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 908  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 908  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgggcgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag acgggagccc cgggcgccgt ggatagagca ggaggggccc gaggattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc cggggcataa ccagtacgcc tacgacggca 360  
 aagattacat gcgctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 909  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 909  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgggcgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gaggattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat gcacctgaac gaggacctga gtcctggac cggcgggac accgcggtc 420  
 agatcaccca gcgaagtgg gaggcgggcc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg ctggagtggt ctccgcagac acctggagaa cgggaaggag acgtgcagc 540  
 gcgagg 546

<210> 910  
 <211> 1012  
 <212> DNA  
 <213> Homo sapiens

<400> 910  
 atcggggtca cggcgccccg aacctctc ctgctgctt ggggggcagt ggccctgacc 60  
 gagacctggg cgggtccca ctccatgagg tatttctaca ccgcatgtc cggccccggc 120  
 cggggggagc cccgttcat tgcagtgggc tacgtggacg acaccagtt cgtgaggtc 180  
 gacagcgacg ccgcgagtc gaggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg cgggtctca cacttggcag 360  
 acgatgtatg gctgcgacgt ggggcccggac gggcgctcc tcccgggca taaccagtac 420  
 gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg gaccgcgcg 480  
 gacaccggg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gacacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggcctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctactgtg atgttagga ggaagagctc ag 1012

<210> 911  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 911  
 atcggggtca cggcgccccg aacctctc ctgctgctt ggggggcagt ggccctgacc 60  
 gagacctggg cgggtccca ctccatgagg tatttctaca ccgcatgtc cggccccggc 120  
 cggggggagc cccgttcat tgcagtgggc tacgtggacg acaccagtt cgtgaggtc 180  
 gacagcgacg ccgcgagtc gaggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg cgggtctca cacttggcag 360  
 acgatgtatg gctgcgacgt ggggcccggac gggcgctcc tcccgggca taaccagtac 420  
 gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg gaccgcgcg 480  
 gacaccggg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggcctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctactgtg atgttagga ggaagagctc aggtgga 1017

<210> 912  
 <211> 1017  
 <212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 912

```

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt ggccctgacc    60
gagacctggg ccggtcccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc    120
cgcgggggagc ccgcttcat cgagtgggc tacgtggacg acaccagtt cgtgaggttc    180
gacagcgacg ccgcgagtc gaggacggag ccccgggcgc catggataga gcaggagggg    240
ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag    300
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca cacttggcag    360
acgatgtatg gctgcgacgt ggggcccggac gggcgctcc tccgcgggca taaccagtac    420
gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg    480
gacaccgagg ctcagatcac ccagcgcaag tgggaggcgg ccggtgaggc ggagcagctg    540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag    600
gagacgtctg agcgcgggga cccccaaag acacacgtga cccaccacc cgtctctgac    660
catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc    720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca    780
ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga    840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca    900
tcttccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt    960
gtggtcatcg gagctgtggt cgctactgtg atgttagga ggaagagctc aggtgga    1017

```

&lt;210&gt; 913

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 913

```

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt ggccctgacc    60
gagacctggg ccggtcccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc    120
cgcgggggagc ccgcttcat tgagtgggc tacgtggacg acaccagtt cgtgaggttc    180
gacagcgacg ccgcgagtc gaggacggag ccccgggcgc catggataga gcaggagggg    240
ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag    300
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca cacttggcag    360
acgatgtatg gctgcgacgt ggggcccggac gggcgctcc tccgcgggca taaccagtac    420
gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg    480
gacaccgagg ctcagatcac ccagcgcaag tgggaggcgg ccggtgaggc ggagcagctg    540
agagcctacc tggagggcct gtgcgtggag gggctccgca gacacctgga gaacgggaag    600
gagacgtctg agcgcgggga cccccaaag acacacgtga cccaccacc cgtctctgac    660
catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc    720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca    780
ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga    840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca    900
tcttccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt    960
gtggtcatcg gagctgtggt cgctactgtg atgttagga ggaagagctc aggtgga    1017

```

&lt;210&gt; 914

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 914

```

atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt ggccctgacc    60
gagacctggg ccggtcccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc    120
cgcgggggagc ccgcttcat tgagtgggc tacgtggacg acaccagtt cgtgaggttc    180
gacagcgacg ccgcgagtc gaggacggag ccccgggcgc catggataga gcaggagggg    240
ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag    300
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag    360
aggatgtatg gctgcgacgt ggggcccggac gggcgctcc tccgcgggca taaccagtac    420

```

gcctacgacg gcaaagatta catgccttg aacgaggacc tgagctctg gaccgcgcg 480  
 gacaccgagg ctcatatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540  
 agagcctacc tggaggcct gtgcgtggag tggctccgca gacacctgga gaacgggaag 600  
 gagacgtgc agcgcgagg ccccccag acacacgtga cccaccacc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggcccgt ggcttctacc ctgcggagat cactctgacc 720  
 tggcagcggg atggcgagga ccaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacatatgcc atgtacaga tgaggggtg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgttgctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctactgtg atgttagga ggaagagctc aggttga 1017

<210> 915  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 915  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagAAC ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc gggggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gctcctggac cgcgccggac acccgggctc 420  
 agatcaccca gcgaagtgg gagggcgccc gtgtggcgga gcagcgagga gctacctgg 480  
 agggcctgtg cgtggagtgg ctccgagat acctggagaa cgggaaggag acgtgcagc 540  
 gcgcggaccc ccaaagaca cagtgaccc accacccgt cctgacct gaggccaccc 600  
 tgaggtgtg ggccctgggc ttctacctg cggagatcac actgacctg cagcgggatg 660  
 gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga gatagaacct 720  
 tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac acatgccatg 780  
 tacagcatga ggggctgccg aagccctca cctgagatg gg 822

<210> 916  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 916  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagAAC ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctcctcc ~~gcgggctaccc~~ tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gctcctggac cgcgccggac acccgggctc 420  
 agatcaccca gcgaagtgg gagggcgccc gtgaggcgga gcagctgaga gctacctgg 480  
 agggcctgtg cgtggagtgg ctccgagac acctggagaa cgggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 917  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 917  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120

cgagtccgag gacggagccc cgggcccatt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcggaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 918  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 918  
 atcggggtca cgggccccg aaccgtctc ctgctgctct ggggggcagt ggcctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
 cgcggggagc ccgcttcat tgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgagagtc gaggacggag cccggggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 acgatgtatg gtcgcgacgt ggggcccggac gggcgctcc tccggggca taaccagtac 420  
 gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcgg ctacagatcac ccagcgcaag tgggaggcgg ccggtgtggc ggagcaggac 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gacacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtgtgct cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagccc tcacctgag atgggagcca 900  
 tcttccagc ccacatccc catcgtggg attgttctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgtactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 919  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 919  
 gctcccactc catgaggtat ttctacaccg ccattgtccc gcccggccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcccatt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcggaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 920  
 <211> 677  
 <212> DNA  
 <213> Homo sapiens

<400> 920  
 tacaccgcca tgtcccgccc cggccgcggg gagccccgt tcattgcagt gggctacgtg 60

gacgacaccc agttcgtgag gttcgacagc gacgcccga gtccgaggac ggagccccgg 120  
 gcgcatatga tagagcagga ggggcccggag tattgggacc ggaacacaca gatcttcaag 180  
 accaacacac agacttaccg agagaacctg cggatcgcgc tccgtacta caaccagagc 240  
 gaggccgggt ctcacacttg gcagacgatg tatggctcgc acgtggggcc ggacggggcgc 300  
 ctctccgcg ggcataacca gtacgcctac gacggcaagg attacatcgc cctgaacgag 360  
 gacctgcgt cctggaccgc cgcggacacg gcggctcaga tcaccagcg caagtgggag 420  
 gcggcccgtg tggcggagca gctgagagcc tacctggagg gcgagtgcgt ggagtggctc 480  
 cgcagatacc tggagaacgg gaaggagacg ctgcagcgcg cggaccccc aaagacacac 540  
 gtgaccacc acccgtctc tgacatgag gccacctga ggtgtgggc cctgggcttc 600  
 tacctgcgg agatcacact gacctggcag cgggatggcg aggacaaac tcaggacact 660  
 gagcttgtgg agaccag 677

<210> 921  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 921  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gtttcattgc agtgggctac gtggacgaca ccagttcgt gagttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgcat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgca ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 922  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 922  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gtttcattgc agtgggctac gtggacgaca ccagttcgt gagttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgcat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 923  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 923  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gtttcattgc agtgggctac gtggacgaca ccagttcgt gagttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgcat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagttcgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gtccttgac cgcgcgac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 924  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 924  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcataa acagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gtccttgac cgcgcgac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 925  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 925  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagttacgcc tacgacggca 360  
 aggtattacat cgccctgaac gaggacctga gtccttgac cgcgcgac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 926  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 926  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gtccttgac cgcgcgac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546



<210> 927  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 927  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc cgggtataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 928  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 928  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc cgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 929  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 929  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc cgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga acctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 930  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 930

```

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactga ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300
gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360
aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcaggacaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

```

&lt;210&gt; 931

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 931

```

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300
gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360
aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagctgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

```

&lt;210&gt; 932

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 932

```

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accggaacac acagatctgc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300
gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360
aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

```

&lt;210&gt; 933

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 933

```

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300

```